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FINANCIAL TIMES

WEDNESDAY JULY 3 1996

The welfare state

Under threat from cost cutters everywhere

Andrew Adonis, Page 10



Greece's new regime

More flexible towards Turkey

Seeing off the speculators



Today's surveys FT-IT Review

Foreign Exchange

Crédit Lyonnais aims to securitise FFr40bn of loans

Crédit Lyonnais, the state owned French bank, is to announce details of a FFrei0hn (\$7.69bn) securitisation issue designed to increase its financial flexibility at a time when it is facing the prospect of substantial losses. The issue will be the largest securities for carried out on the French market and securitisation carried out on the French market and represents an ambitious expansion in the use of the

US call for regulation reform: Congress should give US regulators power to oversee foreign markets such as the London Metal Exchange, said the New York Mercantile Exchange, the LME's rival. The LME said the proposal, in the wake of the Sumitomo copper affair, was "unsurprising". Copper broker suspends staff, Page 4

Japan to allocate \$155bn to science: Japan is to allocate Y17,000hn (\$155bn) to science and technology over the next five years, in an attempt to overcome the reputation of its people as great developers of other people's ideas but poor innovators. Page 12; Money thrown at research, Page 5

Blow to EU fishing industry: The European Union's fishing industry suffered a heavy blow when the European Commission halved this year's quotas for herring fishing in the North Sea to avoid a collapse of the stock. Page 2

Cuban hotels deal agreed: A Canadian entrepreneur is undertaking a \$400m joint venture to build 11 tourist hotels in Cuba in the island's biggest foreign investment deal since the US intro-duced measures in March to discourage foreign

business. Page 12 US appeal over internet indecency: The US Justice Department has formally appealed to the Supreme Court over a decision by a special federal court panel in Philadelphia that blocked a new law against distribution to minors of indecent material

Boeing moves into executive Jets: Boeing and General Electric, both of the US, launched a joint venture to build executive jets. Page 13

Profit expected at Lloyd's: Lloyd's of London will next week mark the end of five lossmaking years at the insurance market by reporting a £1.18bn (\$1.8bn) profit for the 1998 account, according to estimates. Page 7

larael budget cuts agreed: Israel's government approved sweeping budget cuts, without agreeing on which areas to target. Page 4

That bank governor quite: Vijit Supinit, the governor of Thailand's central bank, has resigned following sharp public criticism of his role in a series of financial scandals. Page 12; Fall from

Forther arrest in Arizona 'bomb plot': US federal authorities announced another arrest, making the total 13, in the alleged paramilitary plot to

Secul targets trade deficit: South Korea's president Kim Young sam called for a halt to overseas holidays and consumer spending on imported luxury products in an effort to cut the country's

SmithKline Beecham, the UK drugs company, is to be paid \$100m over the next five years by two other drugs companies for a genetic database it built with its US partner. Page 13

Baring Asset Management, one of the biggest foreign investors in South African shares, is consid-ering suspending share dealing through South Africa-based Nedcor Securities. Page 15

Violusm's Communist party is to change its foreign investment law in October but opportunities for foreigners could diminish. Page 4; Editorial Comment, Page 11

Claus reappointed as Czech Pid: Václav Klaus was reappointed prime minister of the Czech Republic and submitted a list of proposed cabinet members to president Václav Havel. Page 3

UK upbeat about Saudi relations: UK foreign minister Malcolm Rifkind had talks in Saudi Arabia and said trade relations had not been affected by the presence of Saudi dissident Mohammed al Massaari in Britain. Page 4

Wimbledon: Top men's seed Pete Sampras will play his quarter-final against Richard Krajicek of the Netherlands who yesterday defeated Germany's Michael Stich, the tenth seed in the women's event, Germany's Steffi Graf overwhelmed former finalist Jana Novotna and now faces Japan's Kimiko Date in the comisficale. The other carries between fourth in the semi-finals. The other semi is between fourth-seeded Arantza Sanchez Vicario and Meredith

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O THE FINANCIAL TIMES LIMITED 1996 No 33,025

Radical restructuring designed to cut operating costs by \$551m a year

Big shake-up at Credit Suisse

CS Holding, one of the world's largest financial services groups, has unveiled a radical restructur-ing plan aimed at improving its lacklustre earnings in recent

years.
The group, which is based on the Credit Suisse commercial bank in Switzerland and the CS First Boston investment bank in New York and London, said its operations would be concentrated into four core businesses cutting 5,000 jobs - the divestment of industrial activities and an extraordinary charge of SFr1hm (\$800m). The group hopes to save about SFr700m in annual operat-

Mr Rainer Gut, CS chairman, said the restructuring would change the group from a "Swiss bank with international activities to an international financial institution with headquarters and certain core businesses in Switzerland". Mr Lukas Mühlemann, chief

executive of Swiss Reinstrance, has been appointed group chief executive. Mr Josef Ackermann has resigned as chief executive of the Credit Suisse hank because of "diffaring views", the group said. CS Holding shares, which have trailed the Swiss market for much of this year, jumped SFr14.5 to SFr134.5 and led the

SMI index of leading Swiss shares to a record high. However, the two leading international credit rating agencies, Moody's Investors Service and Standard & Poor's, put Credit Suisse on credit watch, indicating that a reduction of its ratings was being considered.



and analysis . Page 15 .Page 12

than three months after the 64year-old Mr Gut made an abor-tive proposal to merge his group with the Union Bank of Switzer-

World stock markets Page 30

The four core activities that the group, which will be renamed Credit Suisse Group, will concen-trate on are: Swiss domestic banking, corporate and investment banking worldwide, private banking and institutional asset management. CS officials said yesterday that it would probably dispose of its 44.9 per cent stake in the Electrowatt electric power generation and industrial con-

trols subsidiary. Credit Suisse has been slower than its Swiss rivals to cut back its unprofitable domestic retail division, and most of the SFr1hn provision will cover this. Swiss retail banking, which operates under three brand names, will be consolidated under the Credit



er Gut: vision of restructured group as an international financial in

Suisse Volksbank name and ing overlapping bank branches about 3,500 of the 5,000 job cuts CS expects to cut its Swiss netabout 3,500 of the 5,000 job cuts

Swiss retail network. The group expects the job cuts to take place over the next two to three years, largely through normal staff turnover. By eliminating the international corporate and

The international investment

Swiss investment business of Credit Suisse. The enlarged Credit Suisse First Boston would have an equity capital of about \$8.5bn and rank as the largest corporate and investment

Continued on Page 12

Russian security chief urges visa clampdown

By John Thombill and Chrystia Freetand in Mosco Lebed takes up fight for Yeltsin on eve of poll

newly-appointed national secu-rity chief, yesterday seized the political cantre stage on the eve of presidential elections by call-ing for tougher visa requirements

for foreigners and a fresh crackdown on government corruption. The speech was part of President Boris Yeltsin's attempt to highlight his nationalist credentials and fight off the challenge of communist rival, Mr Gennady Zyuganov, in today's decisive presidential poll. For the first time in Russia's

history, its 108m registered vot-ers will elect a Kremlin leader after a fierce contest in which Mr Yeltsin has promised to pursue economic reform while Mr Zyuganov has pledged to strengthen government control over the

Mr Alexander Lebed, Russia's economy and improve the social for foreigners, has emerged as newly-appointed national secu-

welfare system.

Mr Yeltsin, whose re-election prospects have been clouded by illness and an abrupt disappearance from public campaigning. was reported to be working from his country dacha. The announcement of Mr

Lebed's tough law-and-order pro-gramme was designed to emphasise the prominent role he would play in a future Yeltsin administration. Mr Yeltsin brought the former paratrooper into his administration after Mr Lebed won 15 per cent of the vote in the

first round of the elections.

Mr Lebed, who outlined plans to overhaul the armed forces, crackdown on crime and corruption, and secure Russia's borders by tightening visa requirements

campaigners.
But Mr Lebed's aggressive nationalist rhetoric and obvious ambition have already earned him public reprobation from some of Russia's senior leaders and western governments.

He tried to counter those objections vesterday admitting: "There have been a lot of rumours about enormous additional powers that I have allegedly wanted to assume - Lebed is striving for power, Lebed is making demands, Lebed is a monster." He ingisted that these across-

tions were not true, but undermined his defence by broadening the traditional definition of national security to include economic, ecological and even moral

and psychological concerns.

Mr Zyuganov, who trailed the president by 3 percentage points in the first round of voting, also adopted a low profile yesterday,

withdrawing from a press conference for fear of breaking the electoral law which prevented cam-paigning the day before the poll. But he still appears confident he can steal victory if Mr Yelt-sin's unenthusiastic constituency fail to make it to the polls today

and wavering voters baulk at electing an ailing 65-year-old man who has suffered two heart

attacks in the past year.

Analysts believe voter turn-out could be the decisive factor in today's ballot, predicting a com-fortable Yeltsin victory if more than 60 per cent of electors make it to the polls, but warning that the president's career could be in jeopardy if fewer Russians muster the energy for a second vote.

Power brokers at the bedside Observer, Page 11

WHEN WE INVEST IN

A COMPANY

Digital to shed 7,000 jobs in \$475m overhaul

By Louise Kehoe in San Francisco

Digital Equipment, the world's largest computer company after International Business Machines, is to cut 7,000 jobs and take a

The moves are part of an attempt to deal with unexpected problems in its personal computer business and weakness in the performance of its European subsidiaries.

Digital's problems highlight the recent downturn in the per-sonal computer industry in the US and some parts of Europe, particularly Germany.

Mr Robert Palmer, Digital chairman and chief executive, said earnings for the fiscal fourth quarter would be "well below would be below those of the same period a year ago.

The anticipated shortfall is a

serious setback for the company, which had appeared to be making a recovery after heavy losses Between 1990 and 1994 Digital recorded cumulative losses of more than \$5bn, but the company returned to profitability in late 1994 and has reported six consecutive quarters of strengthening

"This is a setback," Mr Palmer acknowledged. We haven't managed our PC business very well at all. We did not accurately mea-

sura resellers' sales."

A number of other leading PC manufacturers, including Apple Computer and Packard Bell of the US, and Olivetti of Italy, have been struggling to come to terms with problems in the PC market. ment restructuring and reported big losses; Packard Bell has merged its PC operations with those Groupe Bull of France and Japan's NEC; and Olivetti has been struggling to return its loss-making PC business to profit. When PC prices dropped

sharply, earlier this year, Digital, like most other manufacturers. was forced to give rebates to dealers on their excess stocks. However, Mr Palmer insisted Digital's turnsround remained

MasterCard steps up credit battle with US curb on rivals

By Motoko Rich in London

MasterCard International has intensified the global battle between credit card issuers by restricting its member banks in the US from issuing rival cards such as American Express or Dean Witter Discover.

Following a meeting of Master-Card's global board of directors in London over the weekend, the US board, consisting of 24 repre-sentatives from its member banks, decided that "members that choose to issue competing card programmes may not participate in MasterCard within the

The policy move, which follows last month's announcement by American Express of an international expansion programme, aligns MasterCard with Visa, a rival payment card organisation. Visa has a by-law in the US banning member banks from issuing all rival cards except MasterCard, and MasterCard's policy would Until now, American Express investigating.

Charter ______10
Charter _____11
Business & Embourn*___8

has issued its own cards through a proprietary distribution channel. However, earlier this year it said it wanted to issue cards through banks. It has established distribution deals with banks in Brazil, Greece, Israel, Turkey. Portugal, Venezuela, South Korea

Visa tried to restrict its Euro-pean member banks from issuing rival cards, but decided to drop the plans after Mr Karel Van Miert, European competition commissioner, warned that it could "not accept" such a move.

MasterCard, which has 13,300 members in the US, said yesterday it had decided "support for such as American Express".

already been approached by 50 US banks interested in issuing and South Africa. the cards. "We would like every

the MasterCard brand would be diminished if its members particlpated in competing programmes The US Department of Justice said it would be "looking at competitive issues involving the prohibition of certain joint ventures

in the credit card market", although it declined to say which

companies or brands it was

CONTENTS

LONDON - LEEDS - PARES - FRANKFURT - STOCKHOLE - MAINED - MEE YORK - LOS ARCELES - TORYO - HORE YORK

Recent Laures ..

Mr Jon Linen, vice-chairman of American Express, said: "I think this move by MasterCard is frankly arrogant. It looks like strategy."

He said American Express had

bank to have the right of choice and we think this move is downright anti-competitive."
In the US, Visa commands 49.9 per cent of the credit card market while MasterCard holds 27.1 per cent and American Express, 15.4 per cent. Last year Visa held 54 per cent of the global credit card

Mr Mark van Wane, secretary general of Europay International, a payment card membership

volumes. Mastercard had 81 per

cent and American Express 10

organisation which runs the MasterCard brand in Europe, said: "We have said from the beginning that we do not intend to impose such a ban in Europe."

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Court rules on

EU job barriers

A German musician whose request to join the Athens opera A German musician whose request to join the America operatives turned down on the grounds of nationality has had his complaint upheld in the European Court of Justice.

The judgment reinforces the principle of freedom of

movement of workers inside the EU to the public sector, and covered similar complaints from the European Commission

about Greek barriers to employment in the electricity, gas, transport, teaching and communications sectors.

The Court also found that the Belgian government operated

barriers to foreigners seeking jobs in the gas, electricity and water industries. It ruled that the Luxembourg government

The rulings mean that Belgium, Greece and Luxembourg must end discrimination on the basis of nationality and scrapbarriers preventing workers from other EU member states

was restricting access to jobs in the area of public utilities, scientific research, communications and the public health

from competing for jobs in their public sectors.

The Court said restrictions on foreigners could only be justified where the work related directly to the exercise of

Probe into Crédit Foncier aid

public authority. Belgium, Greece, and Luxemboury were all

The European Commission is today to launch an investigation under state aid rules into the French government's plans to rescue Crédit Foncier de France, the troubled property lender.

The French government has said it would guarantee CFF's

oest after the relation for bad investments in real estate.

The loss followed the ending last year of Crédit Foncier's

monopoly on government-backed housing loans. The

commission is likely to examine the terms of the French

debt after the lender announced a loss of FFr10.8bn (\$2.30bn).

government's guarantee of FFr260bn of bonds, to ensure they

do not contravene state aid rules. The French authorities will

also be asked to disclose the size of any subsidies paid to the bank. The government has given CFF until July 31 to present

its restructuring plan. Voting on a plan presented by minority shareholders to CFF's shareholder meeting on Friday to split

the bank into two units was delayed after pressure from large

■ The European Commission yesterday approved acquisition

Bayernwerk to acquire 25 per cent of Germany's Erdöl-Erdgas

by Caisse Nationale du Credit Agricole of 51 per cent of Banque Indosuez, a unit of Compagnie de Suez, and cleared

Neil Buckley, Brussel

EUROPEAN NEWS DIGEST

European economic and monetary union: timetable for change

EU lawyers to discuss how to beat speculators on road to single currency

Quest for an Emu without tears

s the markets mull the outlook for European monetary union, a group of law officials will gather in Brussels today for a secretive

Representatives from the European Commission, European Monetary Institute and European Union governments will be working out details of the legal framework for Emu.

With the EMI and Commission having both recently produced draft legal frameworks, many of the key issues have been decided. However, one small detail could generate some strong debate today - the question of how far the law can be used to fight currency speculation in the transition phase in which national currencies and the euro

co-exist. The EMI has proposed that contracts which do not respect the official exchange rates should be unenforceable under EU law. It believes this is necessary to make Emu more credible. However, the European Commission which is ultimately responsible for creating the new legislation - wants to

take a slightly softer line.
The debate over the legal language highlights a broader fear about whether currency turmoil could threaten Emu and whether policy makers can do anything to combat it.

As one banker who has recently been in discussion with the Commission about the issue says: "The fear of market speculation has become a real sion. The Commission and EMI are casting around for things to fight

Just how far this fear is justified is an issue of considerable debate in the markets. On the one hand, the currency markets have been calm in recent months. And with some market players having been burnt by failed attempts to weaken the French franc in recent years, most traders insist there is little

stomach for speculation at the moment. However, as Emu approaches, many admit there are likely to be tensions emerging, not only around the currencies which might be left outside Emu - but also for the currencies

Some market players believe this intervening period could trigger considerable market volatility. For if market traders believe that the currencies will be fixed in 1999 at rates which differ from the rates in force in mid-1998, they will bet on different exchange rates in

In legal terms there is little that the EMI or Commission could do to combat this because the fixed exchange rates do not legally start until 1999. However, some policy makers are already casting around for other solutions.

Gillian Tett on how the law might be used to fight currency speculation in the transition

which are potentially members.

The EMI has voiced concerns about the period when the single currency finally replaces national currencies in the Emu "area" in 2002. Although the Euro notes and coins will be introduced from January 1 2002, national notes and coins will still circulate until July 2002. To clarify this in legal and practical terms, the EMI is suggesting that this period should be shortened.

However, it is at the earlier end of the time spectrum, around 1999, that the ambiguities create the dangers for currency speculation.

According to the current timetable, the members of Emu are due to be announced in mid-1998. However, Emu itself - and the irrevocably fixed exchange rates - will not start until

Mr Alexandre Lamfalussy, presiden of the EMI, for example, has suggested

that to avoid speculation the future cur-

rency rates should be pre-announced

when Emu membership is amnounced

in mid-1998. The idea is viewed with caution in the Commission. However, it has been welcomed by some market players -although they warn it would be effec-tive only if cantral banks were prepared

As Mr Avinash Persaud, head of currency research at the US bank JP Morgan in London, says: "I am already tell-ing my clients that Emu could start in the middle of 1998."

However, the other ambiguous area, which has triggered the current legal debate, concerns the transition period During this period, national notes and coins will remain in full circulation. But since the different national

will be freely convertible with each other at fixed, "irrevocable" exchange In theory, this means that there will be no more room for currency speculation. In practice, however, the crucial question will be whether dealers will be prepared to bet that the supposedly 'irrevocable" exchange rates might be changed in the future, or Emu itself fall

notes will only be separate expressions

of the same currency - the euro - they

The KMI wants to discourage this by insisting that contracts which do not respect the official rates are unenforceable. However, banks themselves remain deeply split over how effective these legal tools might be.

Some suspect that they are likely to be all but irrelevant, since there will be relatively little room for speculation But others warn that legal tools would simply drive trade abroad, not least because it is unlikely that EU law would be fully recognised in other markets such as New York.

But either way, most bankers - and many policy makers as well - suspect that if market speculation does emerge, it is likely to be a symptom, rather than the cause, of broader problems.

As one banker says: "The only thing that will stop markets speculating will be a belief that Emu is thoroughly credible in political and economic terms. That is far more important than any of the legal stuff."

Brussels urged to boost challenge to illegal state aid

EU companies should have stronger powers to sue competitors that have received illegal state aid in their national courts, according to Unice, the European employers' federation.

Unice also urges that procedures for vetting aid cases by the European Commission should be overhauled. Increasing numbers of aid cases are being approved by the Commission when they should be blocked, because inquiries are poorly publicised and competi-tors' views not properly canvassed, the federation says.

Unice says 50 challenges to state aid rulings by the Commission are now pending in the European Court of Justice, compared with a total of only 100 state aid judgments made by the court to the end of 1998. In a paper sent this week to Mr Karel Van Miert, EU com-

petition commissioner, Unice calls for a "procedural regulation" laying down comprehensive rules on what constitutes state aid, how inquiries should be publicised and third parties consulted, and time limits for investigations.

The regulation would be similar to that which sets out the way the Commission vets merger cases, to ensure they do not damage competition. It also calls for a "remedies

directive" to guide national courts in dealing with damages claims against companies that have benefited from illegal subsidies, and to encourage competitors to bring such cases. At present, Unice says, the maximum penalty the Commission can impose is to force companies to repay illegal aid. The role of national courts is still unclear, in spite of new Commission guidelines

Unice's recommendations come after it warned in a paper last year that excessive nounts of state aid were still being approved to EU compa-nies. The latest available fig-ures, for 1992, show industrial state aid alone totalled Ecu34bn (\$42bn), or Ecu1,200 for every employee in the

Mr Dirk Hodig, chairman of Unice's company affairs com-mittee, said state subsidies lowered the break-even point for companies, allowing them to cut prices and drive out competition. "State aid really goes to the heart of Europe's competitiveness, and its attractiveness as a place to

invest," Mr Hudig said. Controversial cases this year including approval of a Pta87bn (\$713m) aid to Iberia. the Spanish airline, and the revelation that state subsidies to Bremer Vulkan, the German shipyard owner, were diverted into projects different from those for which they were granted, have fuelled

ds for a review. Mr Jacques Santer, Commission president, has also called for a re-examination of state aid as part of his "confidence pact" for employment. He believes too much aid is going to heavy industry to save jobs, rather than to research and development projects and small enterprises that could

create new jobs.
Mr Van Miert has proposed changes, including doubling the minimum size of state aids on which the Commission rules to Ecu200,000 to give his hard-pressed staff more time to judge big cases. Unice says even that threshold is far too low; it suggests Ecu50m.

mern, currently owned by Gaz de France. Neil Buckley Greenpeace manager dismissed

Greenpeace, the international environmental organisation, suffered a setback to its campaign against Danish industrial fishing of tobis off the east coast of Scotland, when Greenpeace Denmark dismissed its manager, Mr Mats

Abrahamsson, on Monday night.

Tobis, are used for production of fishmeal and fish oil, an industry dominated by the Danes in northern Europe. Over the past 10 days a ship sent by Greenpeace International to the Wee Bankie, about 30km off the east coast of Scotland, has tried to sabotage fishing by Danish trawlers on the grounds that industrial fishing destroys the region's food chain,

Mr Abrahmsson, a Swede, supported the action against the Danish trawlers, but the Danish organisation's campaign manager, Mr Klaus iversen, was critical of the campaign and the means used against the trawlers. At a five-hour meeting on Monday evening, attended by a senior representative of Greenpeace International, the Danish organisation's governing board fired Mr Abrahamsson. Hilary Barnes, Copenhage

Ukraine bank cuts discount rate Ukraine's central bank lowered its yearly discount rate 10 points yesterday to 40 per cent, as its inflationary outlook

improves during the summer months. The government's stabilisation efforts have managed to to 0.7 per cent in May, the lowest rate since Ukraine gained independence in 1991.

The bank's interest rate action is intended to revive stagnant output and lessen liquidity problems at commercial banks, which have not fully subscribed to government bonds. due to cover 32 per cent of the fiscal deficit this year.

Meanwhile, Mr Roman Shpek, Ukraine's chief contact with

western financial agencies, was demoted yesterday from deputy prime minister to head of a new development agency. His departure from the cabinet is part of an ongoing reshufile. The move reduces the number of deputy prime ministers, as mandated in the constitution. But Kiev appears eager to reassure the International Monetary Fund and the World Bank that economic reformers will continue to play a leading role in negotiating loans. Matthew Kaminski Kist

Tudjman TV show dropped

Croatian state television, controlled by President Franjo Tudjman's government, has cancelled its only programme that was critical of the Croatian leader and his ruling party. Staff of the programme Slikom na Sliku, or Frame by Frame, said yesterday they had received no explanation.

The senior news editor at Croatian state television said the programme was cancelled as part of a new summer schedule, and that it would be merged with another news programme. The 45-minute show was the only Croatian state TV programme that covered the opening of a trial last month against newspaper journalists accused of insulting Mr

Mr Tudiman and his Croatian Democratic Union have come under concerted criticism for muzzling the media. Croatia was conditionally accepted earlier this year for membership of the Council of Europe, a stamp of acceptance in the family of European democracies. But the Council in May backtracked on that decision because of issues including Mr Tudjman's refusal to allow an opposition politician to become mayor of Zagreb, the capital.

ECONOMIC WATCH

Austrian unemployment rises

Austrian unemployment Plate* us % of workforce 3.6 end of June was 188.750, down

Austria was 4.3 per cent in May but down from 4.7 per cent a year earlier, the labour ministry reported yesterday. The country's unadjusted jobless rate was 5.8 per cent in June, down from 6.4 per cent in May and up from 5.4 per cent in June 1995, the ministry said. The total number of registered unemployed in Austria at the from 207,379 at the end of May.

The seasonally adjusted

unemployment rate in . .

■ EU consumer prices rose a provisional 0.2 per cent in May from a month earlier, giving a 2.7 per cent annual rise, the EU's Eurostat statistical office said. In April, prices rose 0.4 per cent on a monthly basis and 2.7 per cent year-on-year. Eurostat said that using its so-called interim index, constructed for monetary union convergence issessment, the EU's annual inflation rate in May was a provisional 2.7 per cent, against a provisional 2.8 per cent in

■ Belgian unemployment fell slightly to 12.8 per cent in June from 13 per cent in May, the Belgian government sold. yesterday. June's rate is also down from 13.1 per cent for June

German government contracts deal opposed EU fishermen

By Michael Lindemann in Bonn

German industrialists have displayed their political muscle by trying to thwart Bonn's attempt to settle a row with the US over public sector contracts. The Federation of German Industry (BDI) opposes the courts if they are unhappy about the way contracts are awarded. The US wants American companies to be able to appeal over such contracts.

The BDI said it was deter-

mined to ensure that companies which had misgivings about the way contracts for power stations and other larger state projects were awarded court, where decisions took too long and held up the tendering

The row centres on complaints by Washington that General Electric and Westing-house were treated unfairly in their unsuccessful bids for power stations in eastern Germany. The US has demanded that Germany introduce legislation to allow recourse to the courts in such cases.

The BDI used its influence to ensure that Chancellor Helmut the law on public sector con-

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clo The Financial Times Limited, Number
One Southwark Bridge, London SEI 9HL. Kohl's cabinet postponed a final discussion last week about the legal changes needed to ensure that companies such as General Electric could seek

A BDI official said companies should use a new arbitration procedure under the supervision of Germany's cartel authorities which has been implemented during the last two years and could reach quicker decisions. But US officials in Bonn said General Riectric and Westinghouse had used these procedures but were not satisfied with them. "We have been patient for a number of years, giving this situation a chance to work," a US official

said, "but it has not." The BDI's resistance throws doubt on whether the US and Germany can reach final agreement on a problem which has been troubling their relations

for several years. Ms Charlene Barshefsky, acting US trade representative. said earlier this week that the US would give Germany until September 30 to find a solution

to the problem.
US officials said the cabinet had discussed draft changes to tracts at its meeting on May 22, but that a final decision at last week's cabinet session had been postponed because of opposition from sections of Mr Kohl's ruling Christian Democratic Union, who fear that German companies will suffer as a result of the changes.

But the US officials said Mr Kohl's government had indicated it was prepared to institute special fast-track court procedures, which would require a decision within 35 days. Those proposals, once submitted by the government, would be able to overcome parliamentary and other opposition, the US officials said. adding that access to the courts was also required under European Union guidelines.

"What the people at the BDI are suggesting is not a solution from the EU point of view nor from our point of view," a US official said. "Something short of access to the courts would mean that we [the US and Ger-many] would be back in con-flict." The BDI spokesman acknowledged that EU guide-lines required legal protection for companies dissatisfied with

Heavy blow for

By Neil Buckley in Brussels and Alison Meltland in London

The European Union's fishing industry suffered another heavy blow yesterday when the European Commission halved this year's quotas for herring fishing in the North Sea to avoid a collapse of the

The emergency measure fishing fleets by up to 40 per cent from next year to safeguard other over-exploited

non-EU member Norway, with which it jointly manages North Sea stocks, to halve herring catches this year. The quota for the eight EU states fishing 313.000 to 156,000 tonnes in the 90,000 tonnes in the Skagerrak and Kattegat waters around

Officials said a "drastic reduction" was the only way to avert a freeze on herring fishing, after reports from the International Council for the Exploration of the Sea warned

fishing was banned between 1977 and 1962, when stocks came close to being wiped out. The Commission is also act-

catches" of young herring by industrial trawlers, fishing largely for sprat for fishmeal will be limited to 143,000 tonnes after previously being unrestricted.

are negotiated. Mrs Emma Bonino, the fisheries commissioner calling for

comes only weeks after the Commission warned member states they would have to cut The Commission agreed with

for herring will be cut from North Sea, and from 120,000 to

fallen to half minimum levels advised by scientists. Herring

ing for the first time against industrial fishing fleets, oper-ated mainly by Denmark. "By-

Demands to reduce fishing fleets to protect stocks are expected to provoke clashes between EU states and the Commission in coming months, as the precise cutbacks each state must make

the cuts, has been the target of hate mail from fishing communities. But yesterday's measures were reluctantly welcomed by government officials in the UK, one of her sternest

The UK faces a halving in its herring quota to 24,640 tonnes. "If cuts of this magnitude are not made, we face the complete closure of the fishery next

Bildt visits new Bosnian Serb leader

Peace envoy keen to find out if Mrs Plavsic's takeover from Karadzic is genuine

By Laura Silber and

Mr Carl Bildt, the peace envoy to Bosnia, yesterday called on Mrs Biliana Playsic, the Serb nationalist politician, in the hope of winning assurances that her takeover of power from Mr Radovan Karadzic, an indicted war criminal was gen-

While the meeting itself - in the Bosnian Serb "capital" of Pale - amounted to a cautious gesture of faith in Mrs Playsic, aides to Mr Bildt said he would watch closely to see who wielded real power in the

mountain stronghold. If Mr Karadzic, who has gone through the motions of transferring power to Mrs Playsic, continues to pull the strings, the Swedish envoy will have no choice but to call for the reimposition of sanctions against the Serbs.

But Mr Bildt's team is under-

stood to be acutely conscious of the drawbacks of this option. It fears that the reimposition of punitive measures would amount to an admission that there is no early prospect of reintegrating Bosnia. This would render almost pointless the pan-Bosnian elections scheduled for mid-September. Mr Evgeni Primakov, the Russian foreign minister, pointedly reminded his western counterparts at last weekend's Lyons summit that the system of UN sanctions in ex-Yugoslavia is supposed to lapse 10 days after free and fair

He successfully demanded

this point be reaffirmed in the to be imposed at any moment.

elections.

Lyons communiqué. However western officials have baulked at Russia's claim that the impending lapse of the UN sanctions regime makes all talk of fresh punishment irrelevant.

The US and its European allies could impose an entirely new package of punitive measures, even if they were not endorsed by the UN as a whole, they argue. It is also possible that the elections will be held as planned, and then declared to have been less than free and fair in the Serb mini-British officials have argued

strongly that a set of possible

sanctions against the Bosnjan

Serbs - including economic,

political and cultural isolation

- should be held in readiness

But they are equally adamant that punitive measures should not initially be applied to Serbia proper, as long as there is some hope of Belgrade playing a constructive role. "We are pleased with what Bildt has achieved so far, but it does not go far enough," said one British official, referring to

the Swedish envoy's efforts to sideline Mr Karadzic Among US officials, the tone is stronger. "Bildt has been burned twice, and this time

Western governments must take action," said one. Meanwhile the tough stance adopted by Moscow at the Lyons summit has reminded western government that Russia could again become a wild card in Bosnian diplomacy,

regardless of who wins today's

election. General Alexander

Lebed, the strongman in a new Yeltsin administration, and communist challenger Mr Gennady Zyuganov were furious critics of last autumn's Nato bombing campaign against the

Mr Yeltsin abruptly toned down his criticism of western policy in ex-Yugoslavia last October in what many observers viewed as trade-off with President Bill Clinton: Russia would give the west a free hand in Bosnia, on the understanding no concrete moves would be made in 1996 to enlarge Nato.

Whether or not such a formal undertaking exists, Nato expansion will be back on the agenda this winter, the very time when the UN Security Council will be considering its

JAYIUO LED



Václav Klaus: was reappointed as prime minister yesterday

Prime Minister Klaus chooses cabinet to rule with minority

End of Czech uncertainty EU in shade

Mr Václav Klaus was reappointed prime minister of the Czech Republic yesterday for a second term, a key step in his attempt to put a new minority government in place following an inconclusive gen-eral election last month. Mr Klaus also submitted a

list of proposed cabinet members to President Václav Havel, who is expected to swear them in tomorrow. Mr Klaus had earlier handed to the president the resignation of his outgoing government, which lost its parliamentary majority in the election last month.

The prime minister's Civic Democratic party (ODS) has

formed a new coalition with nalled a willingness to compro-the Christian Democrats (KDU) mise in order to secure that and the Civic Democratic Allisupport, but it is not yet guarance (ODA), its partners in the Some of the CSSD's demands former government. They ham-

over the past month, and Mr Miloš Zeman, as chairman Klaus sald yesterday he expecof parliament and of senior ted final agreement in about 10 party officials to parliamentary Following his election last He said he should be able to present the programme to par-liament "around July 16 or 17" week Mr Zeman gave a further sign that the party's support and seek a vote of confidence. would be forthcoming by mak-

> It is possible the CSSD would back the coalition in office for its full four-year term, although there is a widespread belief that a minority adminis-

ing a conciliatory acceptance

have already been met, includ-

ing the election of its leader,

tration will not survive that ence over financial policy and

posts, including that of prime minister, with the KDU and the ODA taking four each. The list of proposed minis-

only one new portfolio, a ministry for regional development while the privatisation and economy ministries are abolished. Mr Havel has already indicated that he does not see any barrier to approving the

plaint with the public prosecu-tor last year after TF1 broad-cast football games from other

majority it enjoyed in the old It will take eight of the 16

long. Within the new cabinet the ODS has retained its influforeign affairs, but has been forced to surrender the large

ters contains six new faces but

changes to the ball law and police detention periods, the curtailing of the right to silence, and more resources to improve the police and prison systems. Adoption of an opposition Figure Fall proposal giving courts the power to freeze assets of suspected drug barons is also thought to be

Irish crime puts

in Dublin

The frish government egainst organised crime, using the opening day of business of Dublin's presidency of the Buropean Union to highlight the need for co-operation in tackling the problem of drug

The package of measures, approved by the cabinet last night, is a direct response to public anger at the killing of Veronica Guerin, a crime reporter shot in her car last Friday, allegedly by gangland

The government reform part of the package.

In addition, the government is said to be considering the appointment of a special pros-ecutor, similar to what happened in Italy to combat the Matia.

arguably no worse than in other European states. But it has been allowed to flourish in yesterday launched a drive a climate of lawlessness, which many politicians believe is a direct spillover from Northern Ireland's 25 years of paramilitary violence.

Irish police said yesterday former paramilitaries may have been involved in what is believed to have been a contract killing of Guerin. Ireland didn't have a crime problem in the 1960s. But always when there are people using guns for a cause there will be those who use guns for their own ends," said Mr Joe Costello, a Labour party MP in

Without a forthright policy response from the govern-ment, some deputies worry the republican movement may seek to exploit the situation for political gain. Already a paramilitary involvement is suspected in a number of vigi-lante heatings of drug pushers in Dublin's inner city.

Police were also last night investigating a possible Ms - Roisin Shortall, a Labour party MP involved in campaigning against drug

Brussels warning over French TV's health kick

and Andrew Jack in Paris

France has been given 40 working days by the European Commission to lift restrictions on the TV broadcasting of sporting events where hoardings advertising alcoholic drinks and tobacco can be clearly seen by viewers.

If the French government fails to comply, it faces being taken to the European Court of Justice, the Commission

warned yesterday. The Commission is arguing that the restrictions on TV broadcasts under France's Loi Evin violate EU rules on the freedom to provide services. The Commission has sent a "reasoned opinion" - the sec-ond stage of formal infringe-mittee against excessive smok

ment proceedings - to France. The Commission said it was the first time a case of this kind had reached this stage.

The Commission's action was sparked by the banning of a screening by the French TV channel, TF1, of a European football match in March 1995. Since then, other sporting events have also been banned on the grounds that alcohol adverts were visible.

The objective of protecting public health was fully supported, the Commission said but "in this instance" it considered that "the measures taken to interpret and apply the relevant French legislation are not proportional to this objective". Mr Philippe Boucher, director of the French national coming, said yesterday that the decision by Brussels would lead to new efforts to call for a complete ban on alcohol and tobacco advertising at sports

This could backfire against the advertisers," he said. "The fact that there is this type of advertising at sports events at

all is more shocking than the fact that it is broadcast. This will put pressure on lobbying of international sports organisations to introduce a total ban," He pointed out that many football clubs were currently supported by public funding, which strengthened the argument for a ban in the

mered out the substance of a

governing programme in talks

The new coalition, with 99 of parliament's 200 seats, needs

the support of the main opposi-

tion Social Democrats (CSSD)

to win the vote and to survive

The four parties have sig-

interests of public health. He said that the French legislation to ban alcohol and tobacco advertising in sports events was already periodically bro-ken, and that the Brussels decision served simply to clarify the existing situation.

The CSA, the French audiovisual regulator, filed a com-

countries but with advertising it claimed was targeted to reach the French market.

However, since that time the CSA has changed its president,

Greek PM *leads party out of east

or a man once dismissed by party col-leagues as "wimpish". Mr Costas Simitis, Greece's prime minister, showed unexected determination in shouldering aside rivals for com-Panhellenic Socialist Move-

Moreover, Mr Simitis's election on Sunday as Pasok's chairman at a special congress shattered a popular Greek myth. The myth is that technocrats are useful to manage the economy and smooth out Greece's problems with the EU, but that only a charismatic personality can lead a political party.

One analyst said: "Pasok has signalled its re-invention as a European socialist party that can respond to what's happening in Greek society, rather than the concerns of the party

leader and his hangers-on In an unprecedented display of openness by Pasok, state television broadcast the party congress live. Greek viewers watched a dramatic leadership battle in a smoke-filled hall at the Athens Olympic stadium, including a desperate appeal for support by Mr Simitis's populist rival. Mr Akis Tsochatzopoulos, the public administration minister.

Under the late Andreas Papandreou, who founded k and remained its leader until his death last week. party congresses were as eastern Europe. Central committee votes were frequently rigged and no challenge to Papandreou's supremacy was permitted. Pasok members say. However, Mr Simitis's victory was as much the result of cultivating support for his moderate pro-European policies among younger Socialist organisers around Greece as his performance at the con-

Even before becoming prime minister, Mr Simitis had developed a network of supporters in local Pasok organisations which elected the 5,100 dele-

gates to the congress. To secure support from Pasok hardliners, Mr Simitis could point to an impeccably leftwing background. His father, a prominent lawyer, was a member of the commu-nist-led "Mountain Government" during Greece's civil war in the 1940s and several close advisers started their political careers as members of a Maoist communist splinter group that attracted Greek

intellectuals in the 1970s. The challenge for Mr Simitis is not just to keep control of Pasok but to implement policles that conflict with much that Mr Papandreou stood for, including cuts in government

spending, reductions in the bloated public sector payroll and a more flexible foreign policy, especially over Turkey. Since taking over as prime minister from Mr Papandreou in January, Mr Simitis has US mediation to defuse a crists

with Turkey and for giving

mixed signals to investors. As party leader, Mr Simitis finally controls the levers of power. He will decide who becomes a Socialist parliamen tary candidate in the general election next year. Now that his supporters dominate the 200-member central committee which will elect Pasok's new executive bureau later this week. Mr Simitis will be able to promote his reformist poli-

cies more effectively. Thanks to strong backing at the congress from Mr George Papandreou, the education minister and former premier's eldest son. Mr Simitis can also claim a share in Mr Papandreon's heritage - which will exert a powerful pull on the Socialists for some time. On his first day as Pasok chairman. Mr Simitis made a point of going to the central Athens cemetery to lay flowers on Mr

Papandreou's grave.

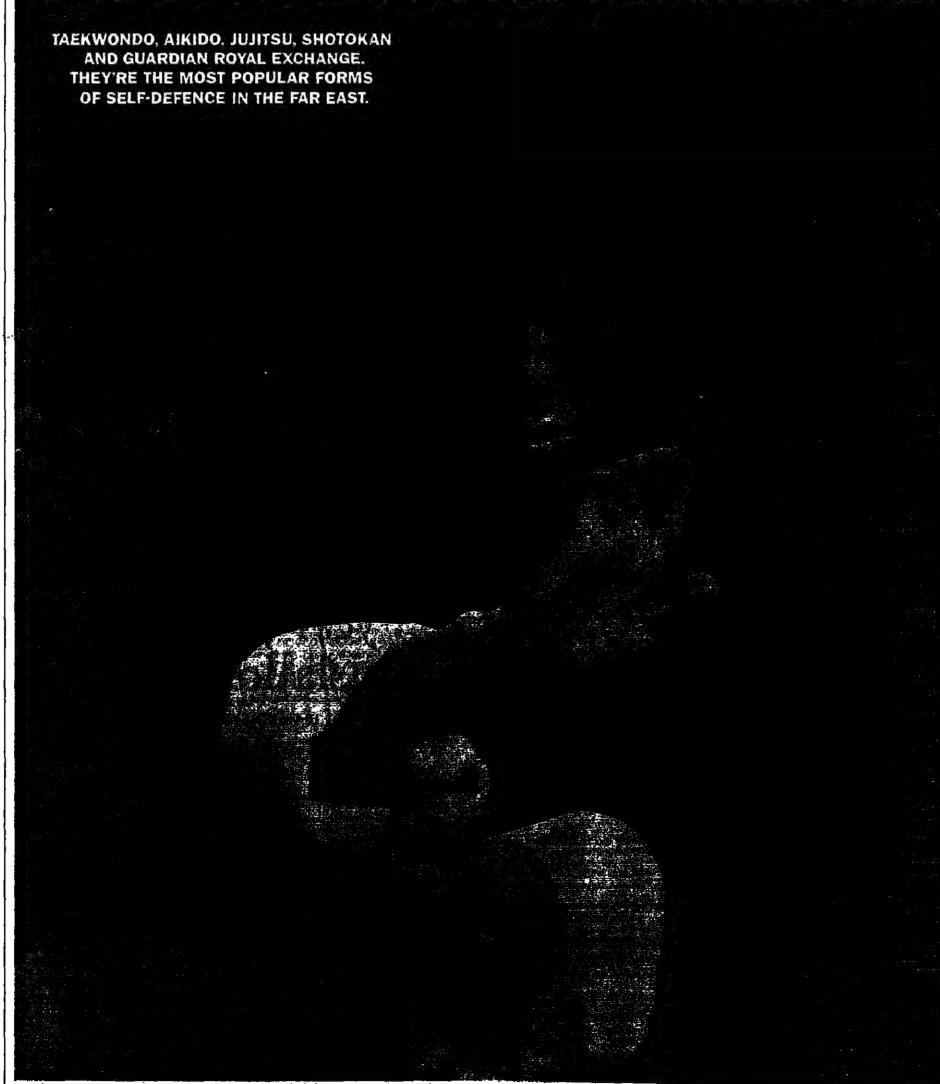
However, Pasok's populis wing, which gave Mr Tsochatzopoulos 46 per cept of the vote, will find it bard to accept defeat. The populists are used to profiting from the pervasive patronage system and will try to undermine Mr Simitis unless be carries out a purge of Mr Tsochatzopoulos's supporters in the party machine.

nalysts said fears of a A exaggerated, given Mr Simitis's high approval rating in opinion polls, which favour his chances of leading Pasok to a sweeping election victors next year against a weak conservative opposition. Government advisers say there are no immediate plans to sack populist cabinet ministers.

The main battleground will be the public sector, where employment has increased by more than 2 per cent in the past year as Mr Tsochatzononjos, responsible for both the civil service and local government, allowed his supporters to hand out jobs to Socialis voters in defiance of a government hiring freeze.

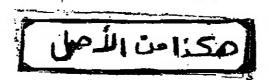
Mr Simitis's first task is to push through much-postponed legislation for spending cuts aimed at bringing down the government deficit by 1.5 percentage points of gross domes tic product next year, in line with Greece's effort to meet the Maastricht targets for EU

Kerin Hope



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KwaZulu result

good for peace

Final election results issued yesterday for South Africa's most unstable province, KwaZulu-Natal, showed President Nelson

Mandela's African National Congress winning the towns while

bitter rivals lokatha took the countryside in the local elections, both with strong majorities. Political analysts said the equilibrium was good news for peace. "It would have been disastrous for peace if there had been a complete rout of likatha," said Kiru Naidoo, a political scientist at the University of Durban-Westville. Election officers declared the final result of last Wednesday's poll after six days of vote counting. The linkatha Freedom Party won 44.5 per cent of the vote to the ANC's 33 per cent. The ANC's share of the vote remained largely unchanged since the historic all-race national election of 1994, but linkatha lost six percentage points to smaller parties.

Router, Pietermaritzburp

bitter rivals lokatha took the countryside in the local

INTERNATIONAL NEWS DIGEST

Rifkind brushes aside Massaari affair

By Roula Khalaf in Jeddah

Mr Malcolm Rifkind, the UK foreign secretary, claimed yesterday that the presence in Britain of Mr Mohammed al Massaari, the Saudi dissident. had become "irrelevant" in

British-Saudi relations. UK officials said the Saudis realised that the UK government had done all it could, albeit unsuccessfully, to deport Mr Massaari, who has been waging a fax campaign aimed at discrediting the Saudi government. They also realised that drumming up the issue

and had raised the dissident's profile in the international

claimed that Saudi irritation with Mr Massaari has led to discrimination against them. British businessmen had been looking to Mr Rifkind's trip to smooth recently strained relations with the kingdom. After meeting Crown Prince Abdullah and Prince Saud Al Faisal, the foreign minister, Mr Rifkind said UK-Saudi trade and commercial relations were "extremely good" and had not been affected by Mr Massaari's

The subject of the dissident was mentioned only once in discussions "very briefly and to dismiss it as a matter of irrelevance to British-Saudi relations," Mr Rifkind said. He cited trade figures which show a healthy relationship. Exports to Saudi Arabia were up 9 per cent in 1995 and increased by 20 per cent in

Officials said UK companies should wait to see if they had been included in the Saudi oil company Aramco's bidding lists in August, before insisting that the Saudis continue to

the first quarter of this

discriminate against British UK officials said the future

of the Arab-Israeli peace process following the election in Israel of Mr Benjamin Netanyahu, the Likud hardliner. featured prominently in the foreign secretary's discussions with Crown Prince Abdullah. Mr Rifkind said yesterday that much of what had been sehioved in the lest those years

achieved in the last three years of the peace process was irreversible, but warned that some of it could be damaged. UK officials said Mr Rifkind

agreed that Arab states should allow time to see whether Mr Netanyahu followed through with his stated positions, rejecting the land-for-peace formula on which Arab-Israeli talks had been based.

Mr Rifkind said there 'appears to be a lot of interest" from Saudi officials for a UK. proposal for an international initiative to exclude from the 1951 UN convention on refugees asylum seekers who incite others to commit

He added that the adoption of the UK proposal by the United Nations as a would require a definition of terrorism, which he believed could be agreed.

· Mr Rifkind arrived in Saudi Arabia a few days after a truck bomb exploded at a US Air Force housing compound near Dhahran, killing 19 Americans. Security has been heightened throughout the kingdom and road blocks set up during the night. Mr Rifkind was confident Saudis were providing the necessary protection for British nationals. Britain has 3,500 workers in Dhahran, including

Copper broker suspends staff

Rudolf Wolff, the London-based metals broker, said yesterday it had suspended three employees in its Tokyo office as part of an internal inquiry into the firm's dealings with Sumitomo Corporation in the copper market. The three staff, all Japanese, were suspended on full pay pending the completion of Wolff's investigation, which includes a review of back office procedures. "There are some elements of paperwork that we need to follow through," the broker said.

The inquiry began after regulators in the UK and US asked all companies which had dealines with Sumitomo to review

all companies which had dealings with Sumitomo to review their records in the wake of the Japanese company's dismiss of Mr Yasuo Hamanaka, its former chief copper trader. Wolff said its Tokyo operation, which employs 10 people, produced only 4 per cent of annual worldwide revenues of about £45m, although Sumitomo accounted for a considerable portion of

Capital penalty for dollar users

Sudan's government has threatened to execute Sudanese who use US dollars or other hard currency. Sudan fears the flight of much-needed hard currency, which it uses to pay \$4m a month to the International Monetary Fund and to purchase an estimated \$350m a year worth of oil. Police on Sunday arrested an undisclosed number of people suspected of dealing in hard currency, but their punishment was not immediately announced. Inflation is at 108 per cent, making the stable dollar increasingly more popular. The bank said the dollar was used to buy and lease real estate and for payment of hospital

Iraq poser for UN chief

gear, computers and other equipment.

United Nations chief Mr Boutros Boutros Ghali will have to overcome US objections to an Iraqi distribution plan for humanitarian supplies if an "oil-for-food" deal is to go ahead, diplomats and UN officials said yesterday. While legally Mr Boutros Ghali alone has to approve Baghdad's plan, the US and the other 14 Security Council members on a sanctions committee could block agreement of purchasing documents and contracts needed for each sale under the scheme. Ms Madeleine Albright, US envoy to the UN, on Monday rejected the food distribution plan proposed last Thursday by Mr Abdul Amir al-Anbarl, the Iraqi negotiator. She accused Baghdad of attempting to twist a purely humanitarian scheme, designed to provide ordinary Iraqis with food and medicine, by including such items as telephone-switching

Israel takes first step of sweeping plans for fiscal restraint and privatisation

Determined Netanyahu pushes through \$1.5bn budget cuts

Israel's new government yesterday approved plans to cut Shk4.9bn (\$1.52bn) from its 1997 budget, part of prime minister Mr Benjamin Netanyahu's sweeping plans for fiscal restraint and privatisation. It also agreed to reduce the budget deficit as a percentage of gross domestic product to 1.5 per cent by the ear 2001, from an estimated

2.6 per cent in 1997.

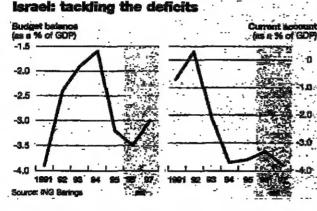
The ministers voted for the cuts without agreeing on which portions of the budget would be slashed, but the defence, education and social welfare sectors expect to be the targets of the biggest cuts. The pensions of career soldiers are also likely to be scaled back. Mr Eli Yosef, finance ministry spokesman, said the issue of where cuts would be made would be addressed during two special finance sessions to be held early next

Mr Netanyahu is apparently determined to gain government approval of his determined to economic plans before he leaves for the US next week,

enabling him to tout its details to US business leaders and

The prime minister has been eager to implement plans for trimming Israel's bloated current account deficit and for selling state-owned businesses to offset his hardline political approach to Middle East peace. After wresting power from Mr Shimon Peres in May, Mr Netanyahu inherited an economy with a current account balance of payments deficit that is forecast to widen

to \$5bn this year from \$4bn in



shares that had been hovering quietly most of the day rose after the vote. The benchmark curb an annual rate of inflation heading towards 15 per cent, against 8.1 per cent Mishtanim index of top 100 shares rose 0.60 per cent to 198.46 from 197.28. Israeli workers and pensioners are not likely to

last year.

Mr Netanyahu's economic team is also facing new signs of an Israeli slowdown. The Bank of Israel said on Monday that its index of integrated indicators, a measure of overall economic health. declined in May to 0.7 per cent, its first retreat in almost two Markets welcomed the

decision to pare the deficit, as

Israel's umbrella labour organisation, the Histradrut, said: "To our dismay we will have to go out and fight against these decisions, which will hit salaried workers and disadvantaged populations." But he stopped short of hreatening more stoppages. Mr Dan Meridor, the finance minister, defended the plan to

swallow Mr Netanyahu's

reforms so easily. Hundreds of

thousands of public workers staged a one-hour strike on

Monday to protest a planned

sell-off of government assets.

Bank and government offices,

air and sea ports, and even Israeli Radio and El Al airlines

closed for an hour as a warning against Netanyahu's plans. Mr Amir Peretz, head of curb the deficit, warning that stens needed to be taken now lest Israel face "more severe cuts" further down the road.



Benjamin Netanyahu (right) confers with Bank of Israel governor Jacob Frenkel before yesterday's cabinet meeting

NEWS: WORLD TRADE

Investors in Vietnam face stricter regime

By Jeremy Grant in Hanoi

Foreign investors who spent nervous months awaiting the outcome of Vietnam's Communist party congress before committing themselves to new projects were little the wiser yesterday, despite clarification of plans to plant Communist party cells into enterprises which have foreign investors.

Some changes are now expected in October, when the foreign investment law will be improved and there could be sweeping changes to top personnel in ministries in frequent contact with foreign businessmen.

But opportunities for foreigners could diminish after the concress pledged to beef up local industry and encourage a more selective approach to foreign investment.

Party officials at the meeting, which ended on Monday, stressed that foreigners were still welcome to invest. But a five-year plan said foreign money would be channelled towards areas "with advanced technology" and those that 'have a high export ratio".

One aim is to attract foreign investors into strategic sectors where the Vietnamese lack capital, technology and expertise. Inflows have so far been tilted towards tourism, light industry and services at the expense of much-needed power and infrastructure.

Another is to push its lumbering state sector into importsubstitution as a way of industrialising, and ensuring Vietnam is competitive enough to meet tariff reduction targets set for 2006, which it must meet under membership of the Asean Free Trade Area (Afta). This could close off some sectors to foreigners. "There will be an increasing number of sectors officially closed to foreign enterprises or effectively closed," said Mr Chris Bruton,

director for Thailand and Indochina at Bangkok-based Data-Mr Do Quoc Sam, minister for planning and investment,

said the foreign investment

law would be amended in Octo-

access to finance, but gave few details. The government would to identify strategic projects. "The selection is a two-way process." he said. Although economists give Vietnam credit for prioritising large-scale investments, crucial guarantees - such as being

ber to ease licensing bottlenecks and improve

able to mortgage land and property - are not yet in place. "When you talk about large projects, there's no way to finance them. Very few people are going to be able to reach into their pockets and produce, say, \$200m just like that," said Mr Michael Scown, a lawyer with Russin & Vecchi in Ho

Chi Minh City. Meanwhile, all foreign joint ventures and wholly foreign-

Microsoft today launches the Vietnamese language version of its Windows 95 computer software system, following the

Monday, AP-DJ reports.

Microsoft is confident that the new law will be enforced. The law should reduce software piracy and foster the development of a Vietnamese software industry, the US company said.

owned projects would have to allow the formation of Communist party cells in them within six months from the day the project started, according to Mr Nguyen Van Tu, president of the country's sole, state-controlled trade union.
"If they refuse (to allow

them) we will insert people by ourselves," he said. "Right now there are very few party cells in foreign joint ventures. We need to have party cells in every one." He said their function would be to educate local employees on the party's work. Their existence reflects an increased desire from the Communist party to see increased surveillance of foreign activity but are being seen by many

businessmen as an irritant

rather than a threat to Editorial Comment, Page 11

India emerges as world centre for software

By Mark Nicholson

India's software industry grew rapidly in 1996-96, with turn-over up 61 per cent to \$1.2bn, and similar growth is expected this year, according to the National Association of Software and Service Companies. Exports, chiefly of software services, continued to outstrip the domestic market, rising 64 per cent to a record \$734m, a

However, the local market increased turnover by a record 57 per cent last year to more than \$490m, helped by a steep cut in duties on imported software packages to 10 per cent in last year's budget. The Nasscom figures show

India is emerging as a leading world centre for software services, particularly to the US, which accounts for around 60 per cent of exports.

More than 100 of the top 500

off-site software services from sales throughout the past six Indian industry having risen 35 Indian companies, according to years as Indian-based compa-Mr Dewang Mehta, Nasscom's executive director.

Last year's growth compares with 45 per cent in the industry between 1991 and 1995. The sector employs 120,000 Indians in more than 700 companies, over 400 of which are exporters. It employed just 6,800 in 1985 and 56,000 in 1990. India's software industry is distinctive in that export mar-

software services are rising as more Indian groups lease high-speed data communica-

Mr Mehia said sustained export growth had continued

per cent and 23 per cent respec-tively in the past two years. nies have exploited an ability to match high quality with rel-atively low labour costs. Mr Mehta said the motor for omestic growth would be in More than 60 per cent of ser-vices are offered at the user's the banking sector, which was about to embark on widespread base, but Nasscom says off-site computerisation.

There are 6,400 branches of national banks in the country which, in the next three years, are set for complete computerisation." Nasscom estimates for the domestic software market, which expects turnover of

Exports could receive a further fillip through Indian companies offering solutions to the "millennium bug": the problem facing thousands of financial service and other companies worldwide whose software is not equipped to deal with the arrival of the year 2000. He said 74 Indian software companies were offering solutions to the problem, which

Nasscom estimated could earn

India up to \$1bn.

\$2.5bn by 2000, could double.

US election year politics puts free trade legislation on hold

Nancy Dunne tracks the record of a reluctant Republican Congress

ince it became Republi-Can-controlled in January last year, the US Con-gress has failed to pass any trade liberalisation measure President Bill Clinton has been willing to sign.

What has turned delay into indefinite hold-up is the fact that this is in an election year and politicians of both parties are uncomfortable pushing free trade when many Americans think imports are costing US

This has not been a factor in trade legislation the Congress has succeeded in passing -measures which have provided for sanctions against companies doing business with countries regarded as "outlaws", such as Cuba, Libya and Iran. One of the most important hold-ups has been renewal of the Generalised System of Preferences, which provides about \$430m worth of duty-free access on goods from developing countries. Renewal of the programme was contained in a budget bill sent to President Clinton, but it was vetoed because it was attached to domestic budget measures deemed unacceptable by the

White House. The 20-year-old GSP programme is not controversial – few members know what it is – but support for it among congressmen is considered "broad and thin" by trade officials. Eighteen Republican senators wrote to Mr Robert Dole,

leader, to warn that the lapse of the GSP was having "negative foreign policy implica-tions". At the same time many small businessmen who rely on GSP inputs have suffered

The House of Representatives has recently begun to move on trade matters. Last week it defeated by a surprisingly large 2-1 margin a mea-

Dole: caution over WTO

sure to end China's most-favoured nation trading status equivalent trading rights to most other countries. And it has granted the same free trade treatment to products from Gaza, West Bank and regional trade zones as that given to Israel. It has also granted MFN status to Romania and Cambodia. Another bill passed by the House contains a 30-month

extension of a shipbuilding

which could have the effect of killing a long-sought deal with other ship-building countries in the Organisation for Economic Co-operation and Development to curb state subsidies to the industry. The Clinton administration is hoping the bill can be "fixed" in the Senate but the trade unions are lobbying hard against it. The OECD's deadline was

June 15. A Senste vote could come in mid-July, but it could Another bill in the Senate, pushed by Senator Bob Gra-ham, a Florida Democrat, is designed to help US tomato growers, who have asked the International Trade Commission for temporary protection from imports of Mexican tomatoes. The bill would make it easier for the FTC to recom-

Before he resigned his sent to campaign full-time for the presidency, Senstor Dole tried, but failed, to move longplanned legislation creating a commission of judges which would oversee rulings by dispute settlement panels of the World Trade Organisation, The legislation was supposed to have made it possible for Congress to take the US out of the WTO if any three decisions adverse to the US were judged by the commission to be "arbitrary or capricious". The Clintrary or capricious. The con-ton administration had prom-ised to support the bill in exchange for Mr Dole's backing loan guarantee programme for the establishment of the

WTO as the successor to the General Agreement on Tariffs and Trade.

Meanwhile, trade officials have abandoned hope that Congress this year will give the president renewed "fast-track" trade negotiating authority that would allow the administration to negotiate Chilean accession to the North American Free Trade Agreement without Congress being able to amend the terms of the pact. The stalemate began over administration insistence that the pact include provisions on environment and labour, which Republicans opposed.

with a WTO accord last year to liberalise financial services and balked at a deal on basic telecommunications in April It has also failed even to table a negotiating offer in WTO talks on maritime services. Washington has argued, in all these cases, that its WTO partners' offers were inadequate. But other governments accuse the US of being unwilling to stand up to protectionist pressures in a presidential election year. Lobbyists for greater trade liberalisation fear that the election in November may see the return of more protectionist congressmen as happened in the 1994 poll. They would replace many departing members who have long champi-

oned open trade initiatives but

have grown weary of the bat-

WORLD TRADE NEWS DIGEST

Caricom fears deregulation

Leaders of the Caribbean Community (Caricom) meet today to speed up efforts to create a common market, amid concerns that the region's small economies are becoming increasingly uncompetitive because of deregulation in international

The four-day meeting in Barbados will also consider the impact of the North America Free Trade Agreement on the region. Carlcom is uncomfortable, too, with proposed changes to the Lome Convention, a trade and aid treaty with the European Union which expires in 2000. Some Carlcom

governments fear that they will lose preferential markets for bananas and rum, and that their sugar sales will be reduced. Officials say the creation of the common market is the only way the region can compete for markets. Carlcom is made up of the English-speaking countries of the region, and Suriname and has a market of 6m. However, some governments are worried that their economies could be damaged if their markets are opened fully to imports from more developed members of the community.

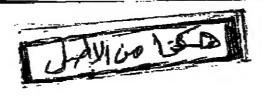
Attica enters fast ferry race

Attica Enterprises, a Greek ferry operator, has ordered two high-speed car ferries costing \$200m from Kvaerner Mass-Yards of Norway in response to growing competition on the Adriatic crossing. The Greek company already has two fast ferries in operation between Patras and Ancona, a route popular with both tourists and truck drivers.

in March, Minoan Lines, a Crete-based shipping company, ordered a \$102m fast ferry capable of 27 knots from Fosen MEK Versteer of Norway for the Adriatic crossing. The new ferries will be built at Kvaerner's shipyard at Turku in

Fligh-speed ferries, some with a single hull, others of catamaran design, are starting to make inroads into markets dominated by traditional ferries. Stena Line, the Swedish ferry group, is introducing them on routes on the Irish Sea and the English Channel. Charles Batchelor, Transport Correspondent

■ Kyoc≃ra, the Japanese electronics and chip component maker, has launched a joint venture with a Chinese camera maker to manufacture and market cameras and other optical instruments in China. The new company, capitalised at \$19m, is expected to produce goods worth \$109m in the initial



spending

Mr Kim Young-sam, the South

Korean president, yesterday

urged a halt to overseas holi-

days and consumer spending

on imported luxury products

as part of a campaign to reduce

the country's yawning trade

response to a new government

account deficit this year will

grow to a record \$11bn-\$12bn.

the effects of currency appreci-

ation, falling international

prices for key export products, a surge of spending for

imported consumer products, and increased travelling

Addressing an emergency

meeting of economic ministers,

Mr Kim said the growing defi-cit also served as a warning that Korea was losing its inter-

national competitiveness due to fundamental economic problems, such as rising wage costs, low productivity growth, and a heavy dependence on a

labour market, the government decided to increase the number

of imported workers from 20,000 to 30,000 and extend

their contracts from two to

Officials will also attempt to

broaden Korea's industrial

base by expanding into new

sectors, such as environmental

technology, and promote advanced products in existing

industries, such as developing

non-memory semiconductors

and high-definition television.

However, the government acknowledged that these pro-

grammes would not benefit the

conomy in the short term. In

growth at 7 per cent this year,

spending will increase for

infrastructure projects to offset the impact of a slowdown in exports and resulting cutback

There was also concern

about a rise in the inflation

rate above the official target of

in industrial investments.

4.5 per cent for this year.

Rhee in the 1950s.

ernment.

abroad by Koreans.

few export products. In an attempt to halt a sharp rise in wages caused by a tight

The widening deficit reflects

Mr Kim's remarks were in

By John Burton in Secul

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on March 13 this year.

government "to take appropriate steps so the KCTU is regis-tered as a trade union confederation".

A presidential commission has recently been established in South Korea on industrial relations reform to propose changes to bring the country's labour legislation into line with the government's commit-ments to ILO core conventions it signed four years ago.

Seoul to seek cut in import Thailand's respected bank chief falls from grace Ted Bardacke explains why a steady hand at the helm has had to resign Ted Bardacke explains why a steady hand at the helm has had to resign A second Thailand's cent entment and endear himself to new was closely followed by revelations under the tutelege of Mr Vijit. A second of Thailand's cent entment and endear himself to new was closely followed by revelations under the tutelege of Mr Vijit.

tral bank Mr Vijit Supinit was used to being the centre of attention at a party. So it was clear the end of his career was nigh when he received the cold shoulder at a reception hosted by senior com-

evening standing alone in the cor-It was a sad moment. A central banker for 30 years, Mr Vijit had kept a steady hand on the helm at the Bank of Thailand, helping the country's economy weather everything from a military coup in 1991 and a sustained attack on the currency in 1995 to the still-present dangers of an overheating economy. And he still found time to begin implementing a plan that has sub-stantially liberalised Thailand's capi-

mercial bankers and finished the

By the time Mr Vitit submitted his resignation yesterday, however, he was a spent force. Over the past six months, the former governor opened himself, and the bank, to unprece-dented political meddling by seeking to increase the central bank's politi-Vijit Supinit: thought to have compromised the bank's independence cal clout with the year-old Thai gov-

tal markets, providing the country with much-needed investment capi-

First, he was widely thought to have co-operated with Mr Surakiart Sathirathai, former finance minister, in sacking the highly respected Mr Ekamol Khiriwat as head of the Securities and Exchange Commission. Mr Ekamol, who was also deputy governor of the central bank and therefore a potential rival to Mr Vijit, had caused early problems for the prime minister, Mr Banharn Silpa-archa, by threatening to resign over "political interference".

Mr Vijit started an investigation

into Mr Ekamol's affairs, including tapping phone conversations with top members of Thailand's financial community, which found the head of the SEC had "revealed state

Second, Mr Vijit is thought to have compromised the bank's indepen-dence. Many became wary when Mr Vijit said he would waive a key regulation preventing cross-holdings among financial groups to allow Finance One, the investment bank led by long-time friend Mr Pin Chakkaphak, to take over Thai Danu

that Mr Vijit participated in the decision to approve a stock market listing for a finance company in which he held shares, his reputation for probity suffered.

Impartiality is a particularly crucial concern for the Bank of Thailand because so much of the central bank's economic policy relies on a policy of "moral suasion" which can be highly discretionary.

In pursuing its tight money objectives, the bank has been unable to rely on instruments such as a discount rate or bond prices, both of which have little impact on the Thai market. Instead, commercial banks must toe the line on interest rates and credit growth for fear that the central bank might not approve things ranging from directorships to investments in hedging instru-

Third, revelations that Mr Vijit soft-peddled for months on warnings that a medium-sized commercial bank, the Bangkok Bank of Commerce, was engaged in dubious lending practices proved particularly damaging. Led by the recently indicted Mr Kirkkiat Jalichandra, a former central banker who rose

ernment and endear himself to new bosses. was closely followed by revelations under the tutelage of Mr Vijit, the ball-out of the Bangkok Bank of Commerce is expected to cost Thai taxpayers as much as \$2bn.

When the country's new finance minister, Mr Bodi Chunnananda. told Mr Vijit last month that it was time for interest rates to fall, posing a direct challenge to the central bank's so-far successful strategy of engineering a soft-landing for the galloping Thai economy, the governor could offer little resistance. Other bank officials questioned Mr Bodi's strategy, but the politicians have, for the moment gained the

"The governor had to go," says Mr. Graham Catterwell, head of equities at Deutsche Morgan Grenfell in Thailand. "The downward spiral of political intervention needs to be stopped and getting rid of Mr Vijit was the first step. But whether the trend will be broken or not depends on who is appointed as a replace-

"The current government is particularly worrisome on this issue," he says. "We could be seeing the beginning of sustained political intervention in the affairs of the Bank of

Japan to throw money at research

William Dawkins reports on doubts that spending target will be met

The Japanese government yesterday moved to quash an old cliché, that Japan is good at develop-ing existing ideas but weak at dreaming up new ones.

It aims to correct that shortcoming with a five-year "master plan" to spend Y17,000hn (\$155bn) on science and tech-nology, agreed by the cabinet yesterday. The scheme is not quite as spectacular as it looks, because it merely confirms a four-year-old cabinet decision and has been shorn of important details such as exactly whether and even when the money will be spent.

That said, the target is grandiose: to lift public research spending to Y4.300hn a year by early next century, double the annual rate when the plan was first proposed by the govern-ment's Science and Technology Agency in 1992, and nearly 80 per cent more than this year's Y2,700bn state research budget.

really meet that target is uncertain, because the tightfisted Finance Ministry will continue to control each year's research budget. Ministry officials are unwilling to rela the cash without a clearer idea of the content, as yet vague, of the research programme. Yet the cabinet's approval marks the clearest official recognition to date that, for all its excellence at applied technology, Japan is behind in innovation.

Anybody visiting the research laboratory of a Japanese university can see why. Equipment is out of data, the staff are underpaid by comparison with western counterparts and industry links are almost non-existent. "Many Japanese companies find it easier to work with a US or UK university than with a Japanese institution," observes a European scientist working in Tokyo. The point is underlined by

Japan's flagship technology projects, last December's leak at an experimental fast breeder nuclear reactor and the loss in February of an unmanned prototype space shuttle, which sank in the Pacific ocean after a rope attaching it to a buoy broke. A year earlier, a scien-tific satellite spun out of orbit and plunged into the Pacific.

The Science and Technology Agency hopes the plan will address two problems: a shortage both of quantity and quality of basic research. Japan is the world's second

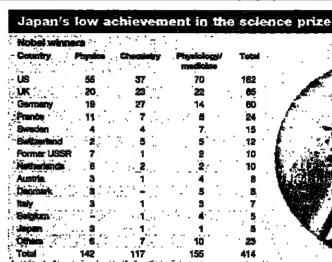
largest spender on research and development, \$130bn in the current fiscal year to next March, according to official data. Yet the public sector pays only a fifth of the total, by comparison with the roughly 50 per cent of national research spending born by the US government, says the agency. The US defence budget

Whether the agency will recent setbacks at three of explains nearly all the difference. The Japanese military, bound by a pacifist constitution, carries out very little research. Yet the German government, with a similar constraint, funds 30 per cent of its national research, points out the Japanese agency.

The Japanese government spends around 0.6 per cent of gross domestic product on research, just over half the 1 per cent or so spent by the US and Germany, it adds. More worrying, private sector research has declined in each of the past three years, for the first time since the second world war, in the general corporate cost-cutting drive

induced by the recession.

Agency officials forecast that Japan's 600,000 private and public sector researchers will dwindle to just over 500,000 in 2005, as a consequence of the country's ageing demographic profile and the unpopularity of



basic research jobs. The agency highlights "low flexibility and competition" in public research institutes, which tend to be staffed by life-time employees. Under the new plan staff will, like western counterparts, be put on shortterm contracts for the life of

Quality of basic research is tity. An agency paper bemoans the rarity with which foreign scientists quote Japanese research results, and the paucity of Japanese natural science Nobel prize winners only 1.2 per cent of the total. An even more damning ver-

dict came from working inter-

national scientists. Of 87 young researchers from around the world, taking part in a Japanese-sponsored "human frontier" programme, only two -both Europeans - chose to pursue their studies in Japan. The hope is that Y17,000bn will be enough to attract the best creative brains to work in Japanese laboratories.

ILO urges | HK ruling change to on video labour law services

By Robert Taylor, Employment Editor By Louise Luces in Hong Kong

The Hong Kong government yesterday ended a long-run-ning industry battle by declar-ing that "video on demand" services should be subject to South Korea has been strongly criticised by the Geneva-based International Labour Organisation over its restrictive industhe same regulations govern-ing other television services. trial relations laws and was told to let workers join the The move comes after heavy trade union of their choice.

industry and consumer lobby-The ILO governing body has just accepted a report from its freedom of association commiting which culminated in a court case, launched by Wharf Cable, the television arm of tee calling on the South Korean government to modernise labour legislation that has been in force since the dictatorship of President Sygman the property-to-infrastructure

Wharf Cable holds the exclusive pay-TV franchise for the colony and argued the govern-ment's decision to allow Hong-South Korea is pressing hard to become a full member of the Organisation for Economic kong Telecom, the colony's dominant telephone services provider, to proceed with com-mercial trials of its own video Co-operation and Development and a decision on its applicaon demand service breached Wharf's franchise. Wharf has tion is expected in the autumn. But unless changes are introbeen seeking confirmation video on demand was a broad-cast service and so subject to duced to ensure trade union freedoms observers believe it is unlikely the country's member-ship will be accepted. the same rules and regulations as other broadcasters. The ILO committee criticises

Hongkong Telecom said its last November's arrest and detention of Mr Kwon Youngambitious plans for video on demand and related services kil, president of the Korean Confederation of Trade Unions such as home banking and shopping would make it the (KCTU) and the government's first provider of these multirefusal to recognise that organ-isation as lawful. media services as a single package. It argued that as its Under Korean law only the service was delivered down Federation of Korean Trade telephone lines it should merely be regulated by the Unions is accepted by the gov-Telecommunications Author-The ILO calls on all charges brought against Mr Kwon to be ity, the telecoms watchdog. Now it will be subject to the dropped and urges the governsame ownership and control ment "to ensure trade union restrictions as its broadcasting leaders are not arrested and peers, and will also have to detained for activities in con-

pay royalties in respect of sub-

scription and advertising reve-

their right to organise". Mr Kwon was released from prison Yesterday, the government further acknowledged industry complaints by agreeing to cut the rate of royalties paid by the territory's two terrestrial stations, Television Broadcasts "The government's arguments for not registering the KCTU because it violated - national laws are not persuasive since these laws are not in (TVB, in which Pearson, owner of the Financial Times, has a 10 per cent stake) and

Asia Television (ATV). TVB, the larger of the two and the most vociferous in calling for a reduction, last year paid HK\$220m (US\$28m) in royalties. It has argued that the levy of 10 per cent of advertising revenues exceeds the levies imposed on monopolies such as utilities, and that far from having a monopoly it shares the market with a pro-fusion of cable and satellife

ASIA-PACIFIC NEWS DIGEST

Singapore homes boom cools

Growth in Singapore's residential property market has slowed in the second quarter following strong expansion in the first three months of the year, UK property consultant Jones Lang Wootton said yesterday. "The private housing market, which had threatened to boil over in the early part of this year, has ammered down in the second quarter," it said in a report.

The report gave no reasons for the decline, but the Singapore government in May introduced a series of currence.

Singapore government in May introduced a series of surprise measures aimed at cooling property speculation and damping prices. The report said average capital value appreciation for apartments and condominiums slowed to 3.7 per cent in the second quarter compared with 5.9 per cent for the first quarter. "Whole island average capital value now stands at \$840 per square foot," it said.

Australia trade deficit increases

Australia's current account deficit for May soured to a seasonally adjusted A\$2.15bn (US\$1.7bn), up from a revised figure of A\$1.97bn for April. This was the first time in six months that the monthly figure had topped the A\$2bn mark. The data rekindled memories of early 1995, when the country's deficit was regularly topping A\$2bn a month, peaking at A\$2.7bn in May 1995.

The latest figures showed merchandise exports falling by 4.3 per cent, or A\$275m in the month. Rural exports suffered a 3.8 per cent slide while non-rural exports dipped by 4.5 per cent. Merchandise imports were also lower - but by only 1 per cent, or A\$70m. But while the May deficit was larger than most private sector economists were expecting and the Australian dollar and local bond prices dipped on the news, some analysts suggested that the situation should now stabilise – albeit at uncomfortably high levels.

Nikki Toit, Sydney

Manila peace plan attacked

President Fidel Ramos yesterday came under attack by Christian groups for agreeing to an autonomous zone in the south of the Philippines to be controlled by the country's largest Moslem rebel group. On a visit to Mindanao, home to most of the country's 5m Moslems, Mr Ramos was accused of selling out to the Moslem rebels 24 years after the insurgency

The deal, due to be signed at peace talks in Jakarta later this month, provides for a "peace and development council" for the southern Philippines to be dominated by Moslem officials. Mr Nur Misuari, chairman of the Moro National Liberation Front, who returned to the Philippines from exile in Saudi Arabia for the peace talks two years ago, has been invited to head the autonomous body for three years until a referendum can be held to determine the scope of the autonomous area.

Leaders of the Christian residents of the 14 provinces to be included under the accord, who claim that 50,000 people have died in the fighting since 1972, told Mr Ramos that Moslems constituted barely 30 per cent of the area's

Mongolian election rout

Mongolia's opposition Democratic Union Coalition wan 50 of the 76 seats in parliament in final results yesterday, routing the former communists who had held power for 75 years. The ruling Mongolian People's Revolutionary party (MPRP) had yet to make an official comment on its crushing defeat, but US election observers said government leaders had given assurances they would co-operate to ensure a smooth transfer of power. The MPRP saw its 70-seat majority in the Great

or power. The MFRF saw is resear majority in the Great Hural, or parliament, slashed to just 25. "It's a revolution," Mr Hashbat Hulan the victorious coalition leader said in an interview. "All our polls suggested this, but we did not expect this." Render, Ulan Bator



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THE SERVICES CENTRE OF EUROPE

Home sales increase interest rate pressure

New US home sales soared to their highest level in a decade in May, increasing pressure on the Federal Reserve to signal an early increase in short-term interest rates. The Commerce Department

said sales rose 7.5 per cent to a

seasonally adjusted annual

rate of 828,000, the highest level since April 1986. The figures surprised Wall Street as most economists had projected a decline in sales of about 3.7 per cent in response to recent ncreases in mortgage rates. In a separate report, the Conference Board, a business group based in New York, said the index of leading economic indicators rose 0.3 per cent in May to its highest level in more than a year. The leading index is designed to predict changes in economic activity

six to nine months ahead.

shortly before Fed governors and regional presidents began a two-day meeting to discuss interest rate strategy. In recent days analysts have speculated that the Fed would delay an increase in rates until its meeting in late August. By then, analysts argued, the Fed would be better able to judge whether a recent surge in economic growth posed a serious infla-

Buoyant data this week. however, may have strength-ened the hand of Fed policy makers seeking an early increase in rates. On Monday, the purchasing

managers' index rose sharply to its highest level in 16 months, signalling a strong rebound in manufacturing industry. This followed figures showing big increases in employment, industrial production, retail sales and new

expected to show economic growth at an annual rate of about 4 per cent in the second quarter - well above the pace the Fed regards as compatible with stable inflation.

Yesterday's data on home sales indicated the recent sharp rise in long bond yields has done little so far to curb demand for housing, one of the most interest-sensitive sectors of the economy. Rates on 30 year mortgages averaged 8.00 per cent in May, more than a percentage point higher than

in January.

The rise in the leading index for a fourth consecutive month indicated the economy was likely to remain strong for the rest of this year. The main components pushing up the index were increases in sensitive materials prices, a longer factory working week and higher orders for plant and

Another arrest in probe of paramilitary right

By Christopher Parkes

US federal authorities vesterday announced another arrest in an alleged paramilitary plot to bomb government buildings in Arizona, bringing to 13 the number of people

The latest arrest took place late on Monday, shortly after the government had held 12 alleged militia members in Arizona on conspiracy and explo-sives charges, following one of the most successful reported covert actions against armed anti-government groups in the

On Monday, 10 men and two women were charged, all said to be members of the Viper Militia, and 400lb of fertiliser, similar to that used in the deadly April 1995 bombing of the Oklahoma City federal building, was seized. The move came nine months after an

Arizona, apparently by dissidents calling themselves Sons of Gestapo, and shortly after the surrender of a group of Montana "freemen" at the end of a siege by federal agents. The arrests followed a six-

month investigation during which a state police officer is understood to have infiltrated the group and gathered information on meetings and secret training in the desert with home-made bombs.

As well as the explosive chemicals, and three unregistered machine-guns, arresting agents seized a videotape showing how best to place charges to ensure a bombed building's collapse. Mr Raymond Kelly, Treasury

under-secretary for enforcement, said on Monday some search warrants had not yet been fully executed, "so it's possible there could be more arrests"

The indictment, unveiled in

home-made rockets powerful enough to destroy a police car, and the need for explosives "to take out tanks in the uncoming

war with the government." Ms Janet Napolitano, federal prosecutor responsible for Arizona, said the Viper members were suspected of having planned to blow up half a dozen buildings including the Phoenix police department headquarters and buildings housing the Federal Bureau of Investigation and the Internal Revenue Service.

The Viper Militia was unknown to most Arizonans before Monday's arrests, but the state is home to several dissident groups. Most are rightwing, self-styled white supremacist or "patriot" gangs. Prominent individuals in the milieu include several police officers, according to the Anti-Defamation League, an arm of the Jewish organisation B'nai

Colombia protests at US

policy

Colombia's foreign ministry has protested strongly at what it calls US interference in internal political affairs, warning that Washington's "incorrect and unjust policy" could deepen "growing anti-Ameri-can feelings" in Colombia.

The protest follows publica-tion in The Washington Post on Sunday of a memorandum from Mr Myles Frechette, US ambassador to Colombia, rec-ommending that his government impose senctions against Colombia and cancel the US visas of President Ernesto Samper and senior members of his government so as to "isolate and weaken" him.

The report of the memorandum, which has not been dum, which has not been denied by Washington, follows an unprecedented deterioration in US-Colombian ties over the past year, amid charges that Mr Samper's presidential election campaign in 1994 was partly financed by drug traffickers of the cartel based in the Calmbian either Coli the Colombian city of Cali.

Last week, Ms Janet Reno US attorney-general, requested the extradition of four top Colombian drug traffickers. The Bogotá government rejected the request, on the grounds that extradition was banned by Colombia's 1991 constitution, although the US insists that an earlier treaty remains

The newest political tensions have set off a debate in Colombia about reviving extradition, and the prosecutor-general has proposed studying a possible constitutional reform to reinstate what he calls "a valuable tool against international drug

trafficking." The Colombian government communique accuses the US of endangering democratic stability and it rejects sanctions, unilateral actions and "discourteous statements that wound national dignity."
US election campaign issues

and Colombia's own problems, says the document, should not get in the way of co-operation against drug trafficking. Republican standard bearer alleges pro-Democrat bias

Dole snarls at TV networks

Mr Bob Dole yesterday charged that TV networks in the US may be violating laws by always sticking up for Democrats In a testy morning TV interview, the presumed Republican presidential candidate suggested that the media and the Democrats had deliberately taken out of context comments in which he had implied that cigarette smoking was not-

"Tve said I don't know whether it's addictive, I'm not a scientist," Mr Dole-said. But, he went on, "are we going to regulate everybody's adult life? Adults

ought to be free to make choices."

The tobacco industry was "in a legal business" and it was "hypocritical" of the Democrats, who had accepted money from tobacco companies, and of their allies in the "liberal elite" media to suggest that he was in their pocket.

"Only people like you in the media don't question the Democrats and how much money they receive," he said. implying clear collusion, he said the networks could Commission laws on political neutrality in

Mr Dole himself does not enjoy close

There is nothing new in the Republican conviction that leading media organish-tions are tilted towards the Democrats. But the refrain has been picked up with vigour over the last two weeks.

relationships with the reporters covering his campaign, their access to him being limited. That has resulted in some fairly media during his presidential campaign in 1992. These, Republicans believe, helped to insulate Mr Clinton from the assorted allegations related to the Whitewater affair and to personal matters that, at various times, threatened to undermine his bid for the White House.

Three and a half years in the presidency, however, have cooled any romance between Mr Clinton and the press, with his re-election campaign now subject to a degree of scrutiny certainly equivalent to

that directed at Mr Dole. The latest round of opinion polls still

shows the president with a healthy lead, A Washington Post/ABC survey, published vesterday and conducted late last month found it down to 14 points, from 22 in mid-May, mostly because of Whitewater and other allegations. But another national survey, which had given Mr Dole trope with its report of a six-point deficit a month ago, now puts the gap at 19 points.

Mr Dole is also still fighting controversy over his stance on abortion. On Monday, he appealed to moderate Republicans by stating he could accept a vice-presidential running-mate who was not pro-life and yet again ran into a buzz-sew of outrage from religious and cultural conservatives.

Asked by a TV talk show host if a prospective vice-president's position on about tion would be a major factor in his choice. Mr Dole said defiantly: "Not to mine. To others it might make a difference, but I'm

He even said he had no problems with the pro-choice beliefs of Governor Christine Todd Whitman of New Jersey. However, she issued a statement praising Mr Dole's stand but reaffirming she did not want to be a candidate.

Test for Chile's central bank

Resignation of chief raises autonomy questions, writes Imogen Mark

central bank president last week after a prolonged struggle within the board of directors has cast doubt on the extent of the

bank's autonomy. Mr Roberto Zahler, who had been due to leave in December when his five-year term expired, announced his resignation on Friday, after banking business had closed for the weekend.

to "situations in recent months" which made it impossible for him "to continue leading the central bank according to what I think are basic principles' Mr Zahler has not elaborated

His brief statement referred

on his statement He worked closely with the previous finance minister, Mr Alejandro Foxley, but was known to get on less well with the present minister, Mr Eduardo Aninat, Mr Zahler had publicly criticised the government's reluctance to cut spending, though both ministers had run steady fiscal

surpluses.
The central bank's institutional role is to guide monetary policy, and Mr Zahler made it his personal mission to bring down inflation gradually but succeeded in doing - from 27 per cent in 1990 to 8.2 per cent last year. This year's target of 6.5 per cent looks just about within reach.

But though the government agrees on the overall aim there have been public differences about whether or how much growth should be sacrificed in Pifiera and Mr Jorge Marshall, the vice-president, are believed to have voted against Mr Zahler on a new round of interest rate rises. All the central bank

directors are appointed, for varying terms, by the president, with some consultation with the opposition. The political balance now favours the governing coalition, with three of the five having been appointed after Chile's return government, when technical excellence was the overriding for criterion then-opposition candidates.

banks.

President Eduardo Frel: He is expected to name soon a new head

owed to the central bank by five local banks. These date back to bail-out packages arranged during the bank crisis of 1982-83, when much of the banking system was technically insolvent. -At the end of the military of the debts was changed to allow the banks to put them off

the long negotiations over repayment of old bad debts

the balance sheet, as subordinated debt, with no to democracy. Mr Zahler term for repayment. The aim himself is a Christian was to make sure that the Democrat, but was named at incoming democratic the end of the military government could not use the government could not use the debts as an argument for nationalising the affected

. But it also meant that the bank board directors closest to The real sticking point on central bank had no means of to mai the government, Mr Pablo the board, however, has been pressing for repayment, autonomy.

earnings. Relations between Mr Zahler and some of the debtors, particularly the Banco de Chile, until recently the biggest private bank, became very strained.

The previous and the present government opted to liberalise the banking law in exchange for setting new rules for the debt repayment. By the time the rules were agreed last year, most of the banks had chosen to repay their obligations. Only the five most heavily indebted including the Banco de Chile and the Banco de Santiago. The central bank board has

been negotiating new terms with each of the five in recent : weeks, and reached firm agreements with two including Banco de Chile. But Mr Zahler had apparently held out for tougher terms, while Mr Marshall is said to have argued for a softer position, to get the issue out of the way once and for all. Mr Marshall's position carried the day in the board, and Mr Zahler resigned. The government and the central bank expressed formal regret at his departure and paid tribute to his professional competence and dedication. The government and the board restated their commitment to maintaining autonomy, and to the economic

But the real test of how independent the government will allow the central bank to be will come when President Eduardo Frei names Mr Zahler's successor, within the next few days. The new bank president will have to possess both a strong character and considerable negotiating skills to maintain effective

\$50m embezzlement charges levelled at treasurer of national agency

Welfare official held in Mexico

By Leslie Crawford in Mexico City

The treasurer of Mexico's Social Security Institute (IMSS) has been jailed on charges of embezzling 360m pesos (\$50m) from the agency, which han-dles the pensions and savings of more than 9m Mexicans. Mr Carlos Tomás Peñaloza Webb, the treasurer, was accused late on Monday of havwith the alleged connivance of to bank accounts which Mr two employees of a Mexican Peñaloza Webb held in the US.

According to Mr Arsenio Farell, Mexico's comptroller-general, Mr Peñaloza Webb authorised numerous stock market transactions during 1994 and 1995, which generated huge profits for the brokerage house and respective losses at

the treasury of the IMSS.

The brokerage's profits were then, it is alleged, transferred

behaving practically according

to what was estimated under

the macroeconomic stabilisa

tion programme." He expected

monthly inflation to be about

1.5 per cent by year-end.

The Andean Development

Corporation (CAF) this week granted Venezuela a \$200m

loan to help support and restructure its banking sector.

The six-year loan will be dis-

bursed in two tranches later this year and carries an inter-

est rate of 2.45 per cent over Libor. The CAF said: "This is

the most important CAF loan

to Venezuela and the first mul-

tilateral credit approved to

Venezuela expects additional

loans of up to \$400m each from the World Bank and the

Inter-American Development

to reform its banking sector. Rescuing the industry in 1994

cost more than \$7bn. The CAP

also approved loans of \$165m to Colombia, \$62.5m to Ecua-

dor and \$37.1m to Peru.

cial system".

He is the first senior civil servant to be jailed on charges of corruption under President Ernesto Zedillo's government.

The move is expected to help the president in his drive to reform the IMSS, which operates a mammoth bureaucracy with more than 300,000 employees and a budget bigger than that of Pemex, the state-owned oil monopoly and

This year, the Mexican Congress approved a bill to privatise the country's pension fund

Under pressure from nationalist politicians, however, a role larger than expected role was reserved for the iMSS, which will be allowed to set up its own company to run pension funds and thus to compete with private-sector financial

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Caracas sees inflation fall

By Raymond Colitt in Caracas

mela's monthly inflation rate fell in June to 7.1 per cent from 12.6 per cent the previ-ous month. It was the first fall since March this year.

The government has forecast that monthly inflation will fall steadily to 2 per cent by yearend. However, analysts say a recently approved sales tax increase from 12.5 to 16.5 per cent and expected utility rate rises will add to inflationary pressure in July and August. The government in April

implemented austerity measures that included a sevenfold petrol price increase and resulted in a 40 per cent depre-ciation of the national currency, the bolivar. Inflation for the past 12 months now stands at 108.1 per cent, compared with 61.2 per cent for the previous 12 months. Mr Lais Berrizbeitia, execu-

tive director of the Interna-tional Monetary Fund, said: "The inflation rate of June is

IBM sues over job in Argentina

By Matthew Doman

IBM, the US computer giant, yesterday began legal action against Argentina's stateowned Banco Nación, seeking payment for work already done on a controversial \$249m computer installation contract recently cancelled by the bank.

The contract is the subject of a criminal investigation which has led to the indictment of 30 IBM staffers and Argentine government officials accused of having defrauded the bank and the state. Banco Nación cancelled two weeks ago the contract to install computers serving its 525 branches, citing "the impossibility of completing the contract's objectives". IBM said yesterday that it would seek payment for work performed, costs incurred and other unspecified damages arising from what it called the

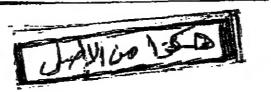
bank's "wrongful revocation" of the contract. "IBM Argentina has worked

and to meet Banco Nación's changing requirements," said Mr Wilmer Guecaimburu, president of IBM's Argentine operations. He said IBM would have preferred an "amicable agreement" with the bank, but Nacion's annulment of the contract had left it with no alter-

native but "to go to court to protect our legal rights". IBM, which is seeking dam-ages of \$86m, claims Banco Nación failed to carry out its obligations under the contract and improperly changed technical requirements, making it impossible for IBM to fulfil the contract. The bank made no comment on IBM's legal action. The indictments of senior IBM staff members, virtually the entire bank board and several other officials in April followed a six-month investigation into allegations that

bribes were paid to win one of the biggest information tech-





Insurance Correspondent

Lloyd's of London will next

week mark the end of five loss-

making years by reporting a

£1.18bn (\$1.8bn) profit for the

1993 account, according to esti-

LLOYD'S OF LONDON

mates yesterday. They

suggested that there would

also be an additional £400m

bonus for Names underwriting

The estimates by Chatset, the Lloyd's analysis organisa-

Mars wins

court fight

over hat

messages

pionship, the bowler hats,

worn mainly by thousands of

English fans, became a famil-

iar site on TV screens around

But it has emerged that they have also cost ISL marketing, the Swiss-based company with exclusive rights for organising the sponsorship of the tourna-ment, an undisclosed sum in

legal fees as a result of an unsuccessful court action in

London to have them banned.

Ving its wounds from the court-

room scrap with Mars, one of

the sponsors of the tourna-

ment, whose "Snickers" logo together with England's St

George's cross were promi-

nently displayed on the hats.

ISL argued that Mars had violated the principle of

"equality of branding on site"

accepted by all the tourna-

bley stadium before all the

main matches. Coca-Cola is

thought to have led earlier

complaints by other sponsors

fundamental issue at the beart of the sponsorship we sell," Mr

Tom Hipkins, 1SL's senior

counsel, said yesterday in

Lucerne. "It would be unfair

to characterise this as a Coke/

Mars issue. It was the subject

of concern for other sponsors,

Mars was unrepentant yes-

doing nothing wrong and that

the court case was unnecessary." Mr Steve Clarke, the

company's events marketing

The company argued in

court that there was nothing in its agreement with ISL pro-

hibiting the sale of plastic

bowler hats in and around

Wembley stadium Under-

ground station. Mars added that it had obtained a licence

to sell the bowler hats from

ISL and Mars are contractu-

ally bound to work together in

the 1998 World Cup in France.

"We have to organise our-

selves in such a way that we

can preserve equality in the

future," said Mr Hipkins.

the local council.

manager said yesterday.

"We felt that equality was a

ISL was yesterday still lick-

the world.

The men and

tion, highlight the turnaround ties. Many Names will have to £3.1bn out-of-court settlement

tas. But the high level of finan-

means that those underwriting

Chatset warned that the

for most Names".

miand regions.

There is a longer list of los-

ers. Farmers in most of

England will suffer from soil

erosion and reduced crop yields. Wildlife will find it diffi-

cult to adapt as climate zones

move northwards by 200km

over the next 30 years. There

may be new human health

problems, for example if insect-

borne diseases become estab-

The insurance industry is

vulnerable, the report says.

Drought-related subsidence

storms and flooding will all

The review predicts an

cause more insurance claims.

increase in the UK average

temperature from 9 deg to 10.6

deg by 2050. At the same time, the global sea leval will rise by

By Jane Martinson

nated supplies. -

and George Parker in London

Drinking water in the UK came

under attack from the Euro-

pean Commission yesterday as the British government itself

took a privatised water com-

pany to court over contami-

In a highly embarrassing

move for the government the European Commission has

referred its evidence on levels

of pesticides in UK tap water

to the European Court of Jus-

At the same time as "rigor-

ously defending itself, the UK's Department of Environ-

ment announced it was to take

South West Water, one of the

UK's nine privatised water

Yorkshire Water, widely criticised over its handling of

last year's drought, declared

yesterday that its executives

were underpaid, David Wighton writes at Westmin-

ster. MPs reacted with aston-

ishment to a statement in the

company's annual report that

its "previous remuneration

Mr Frank Dobson, shadow environment secretary, said: "When I first heard it, I

thought it was a sick joke. It

turns out to be the even sicker truth." Ms Helen Jackson, MP,

chair of the all-party parlia-mentary water group, said: "I cannot believe that they

terms were not competitive".

lished in warmer conditions.

extra funds might cause

resentment among badly

affected Names who could not

afford to continue underwrit-ing in 1993. It also suggested

that the distribution to 1993

cated to strengthening the

reserves of Equitas.
Lloyd's said "rough justice"

for London, say scientists

Mr John Gummer, environ-ment secretary, attacked "scep-

tics who refuse to believe the

evidence before them". He said

that, at a UN-sponsored confer-

ence on climate change in

Geneva next week, he would

call for further cuts in the emissions of "greenhouse gases" – mainly carbon dioxide from burning fossil fuels – by

developed countries. UK emis-

sions are expected to be

between 4 and 8 per cent below

Professor Martin Parry of

University College London, who chaired the review group,

said some sectors would bene-fit from the climate changes

but a larger number would lose

out. Likely beneficiaries

include: tourism and recre-

chief industry minister, robustly defended the govern-

ment's position, stating that a

tral to the single market even

support for monetary union. He said: "As far as we are

concerned the single market is

the most important component

of our economic activity in

Europe, and that does not

Labour's policy of devolving

power to the regions, arguing that inward investors would be

discouraged by the concept of a

"The way forward is a

Europe of nation states, with their own, vigorous, distinctive and outward-looking regions," he said. "The regions of

England are not regions of

Europe, and nor are Scotland. Wales or Northern Ireland.

They are parts of the enter-

prise centre of Europe - the

United Kingdom."

• A small majority of UK

exporters are opposed to a sin-

gle currency, a business survey

reports, our Reconomics Correspondent writes. The survey

by NCM Credit Insurance and

the Institute of Export shows

that 48 per cent of companies questioned were opposed to a

single currency operating in

the European Union with only

But the balance has shifted

in the past year in favour of

43 per cent in favour.

Mr Lang also criticised

require a single currency.

"Europe of the regions"

1990 levels by 2000, he added.

'French' climate ahead

was inevitable under the plan. It pointed out lossmaking Names would benefit from a

will receive a £400m release.

at the insurance market which pay towards the cost of Equi-

than £8bn since 1987. Lloyd's . cial reserves held during 1998

has reported losses of more

reports three years in arrears.

But Chatset warned that "ill-

feeling" could be created by benefits for Names underwrit-ing in 1993 resulting from the

insurance market's recovery

plan. Names are individuals

whose assets have traditionally

supported the insurance mar-

is setting up Equitas, a big reinsurance company which

will take responsibility for bil-lions of dollars of mainly US

Global warming will widen the

UK's climatic gap between the wet north and the dry south, a

government review of climate

change warned yesterday. The UK Climate Change

Impacts Review Group, an

independent scientific panel

reporting to the Department of the Environment, predicts that the north and west of the coun-

try will become even wetter

over the next half-century.

with more flooding.

The south and east will

become drier, with frequent droughts. The climate of the

London area in 2020 will be

like that of the Champagne or Loire regions of France today,

By Richard Wolffe

nean union.

warned business leaders yes-

ment's sponsors by terday that regional funding though a straw poll among del-distributing hats near Wem- would be jeopardised if Britain egates revealed overwhelming

withdraw from closer Euro-

Alongside a stinging attack

on government policy towards the European Union, Mr Gra-

ham Meadows, director of

regional policy at the Commis-

sion, said the UK's opposition

to a single currency was likely

to deprive struggling areas of

Speaking at the national con-ference of the British Cham-

bers of Commerce, Mr Mead-

ows suggested the UK would be excluded from "flanking pol-icies" designed to help member

states move towards a single

currency. Those inside a single

currency would not allow the

UK "to steal their benefits", he

His attack on British policy

was echoed by Mr Geoffrey Martin, head of the European Commission office in Great

Britain, who condemned Con-

servative Eurosceptics for

wanting to stop closer union

and return to the days of the

together, the policies of Euros-

cepticism are tantamount to

withdrawal from the European

Union and are fundamentally

at odds with the wishes of the

14 other member states," he

However Mr Ian Lang, the

common market.

industrial support.

added.

by 2050 it will be like Bor-deaux. ation; forestry (with a pre-dicted 15 per cent increase in

Brussels warns

regional funding

The European Commission single currency was not cen-

of threat to

By Clive Cookson, Science Editor

As part of the plan, Lloyd's

Manager Stray Hally

Honor and the second se

Charles and the second Mark all rounds Frank in the second of the sec

writes Imogen Mal

women in plas-tic bowler hats have cast an unfortunate BUP096 shadow over the celebrations of the second England among the organisers of the generally successful Euro 96 football championship. For much of the three-week cham-

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Up to 2,000 ageing commuter

ther 15 years of life under prorolling stock manufacturer. Mr Stig Svard, chief execu-tive officer of ABB-Daimler Benz Transportation (Adtranz), said the proposals meant the newly privatised train operat-

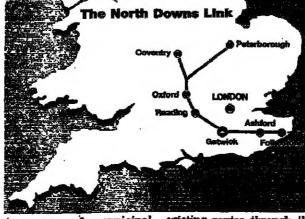
are placing increasing hopes in

type known as Mark 1 - compared with £1m for a new one,

the steel bodies with aluminjum, on top of the original wheels and underframe. The

for leasing the trains. But the increase in charges would only be "marginal," Mr Svärd said. In part this would be because the rolling stock companies are rewarded for making safety improvements by the government.

Most of the Mark 1 trains run south of the river Thames with 540 operated by Network SouthCentral, recently acquired by CGEA, a French transport group; 440 by South West Trains, now part of the Stagecoach bus group; and 350 by South East Trains, which



authorities in London is stepping up its campaign to reroute Channel tunnel freight trains away from the centre of the capital on to an under-used line running to the south-west of London, Charles Batchelor

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existing routes through the capital. A Department of Transport assessment con-cluded that improving the line was not a viable option. But this study did not take account of the problem of capacity constraints and put too high a price tag on the work which needed doing, the tunnel group said. "The relative success of the Channel tunnel rail freight activity is already sng-

Profit of \$1.8bn expected on 1993 account

offer which was also part of the plan. Equitas offered a In 1994, Lloyd's is expected cost-effective way of capping to have made a further £1bn profit. The following year's Names' liabilities, allowing them to leave Lloyd's. Chatset profits were affected by a acknowledged that the recovdownturn in motor insurance ery plan "is pretty attractive premium rates but are still expected to reach about

The 1998 profit figures reflect However, this year's figures tional insurance business after could mark a significant a bleak start to the decade. deterioration. A survey released yesterday by the London Insurance and Chatset estimates returns on "capacity" - the amount of Reinsurance Market business Names are able to underwrite - were as high as Association, representing non-Lloyd's insurance companies in the UK capital, 20 per cent on marine business, before taking account of the showed premium rates for

Quality of drinking water

too low, say EU officials

contaminated water. The court

proceedings stem from an inci-

dent last year when 575 people experienced stomach upsets and abdominal pain caused by

an outbreak of the illness

had failed to comply with the 1980 Drinking Water Directive

by allowing the level of pesti-

cides in drinking water to

exceed 0.1 microgrammes per

litre. Cartain areas, including

London, were regarded as the

worst offenders. Fines can be

imposed on the government if

it is found guilty of non-

compliance after a legal case

The Commission's action

which could last three years.

all the reviews of what went wrong last year, nobody said one of the problems was that

the directors were not paid

enough."
The annual report, now

discloses that the former chair-

man and chief executive, who

both stepped down in May.

received total pay of £170,000 (\$260,000) and £156,000 last

year. The company said it had

reviewed remuneration in line

with the recommendation in

last year's Greenbury report on executive pay.

of non-executive directors con-cluded top salaries were too

The Commission said it had

cryptosporidiosis.

month for allegedly supplying the Earth, the environmental

- found evidence that the UK that, after losing a Court of

campaign group, which took its own action against the gov-ernment. It claimed that under-

takings given at water privati-sation in 1969 allowed the

water companies to flout the

Friends of the Barth said

Appeal hearing against the

government at the end of 1994, the group was refused permis-

Lords as the highest court of

appeal.
The Department of the Envi-

ronment said the Commis-

sion's action had "nothing to do with water quality", but

concerned legal undertakings

given to companies at privati

about £130,000.

Yorkshire also managed to

recruit a heavyweight new non-executive chahman in Mr

Brandon Gough, former senior

partner of accountants Coopers

& Lyhrand, who agreed to take

salary of £120,000. The com-pany said it believed the new

salaries were still uncompeti-

on the two-day a week job for a

rules on pesticide limits.

A wetter north and a drier south

continuing to fall. That could put pressure on profit margins across the market

Mr Stephen Riley, chief

executive of Swiss Re (UK),

said premiums "are about to cross the murky water between what is just about an acceptable commercial rate Lloyd's confirmed it could set up a separate reinsurance company to take over the liabilities of US Names if it was prevented by state securities regulators from offering Equitas cover in the US. A Lloyd's insider described the option as a "contingency plan".

UK ECONOMICS DIGEST

World Service changes opposed

Organisers of the campaign to save the BBC's World Service have written to every governor of the BBC warning that, if current changes go ahead, the World Service would first "alienate its audience, then lose them". The warning came in response to the reconstruction of BBC management under which World Service programmes would in future be made by other divisions of the BBC under contract.

The campaign argues that the plans would end the cross-fer-tilisation that occurs because World Service staff who broadcast in English and those who produce the 43 other language services are all in the same building.

The aspirations of BBC journalism can be taught to the newcomers just as we rely on them to help us understand their cultures," the letter argues. The Campaign insists that there is no need for the World Service to be subsumed into a contraction intended above all to bring banefit to British restructuring intended above all to bring benefit to British television audiences, particularly as the World Service is cheaper in every area than any other part of the BBC.

Focus on communication

The National Heritage Department should be renamed the Department of Communications and Heritage and its role strengthened and extended to include communications and the information superhighway, MPs recommended yesterday. A report by the national heritage committee of the House of Commons argues that allocating responsibility for developing the superhighway to one of seven junior ministers in the Department of Trade and Industry gave it nothing like sufficient weight. Responsibility for horse and greyhound racing should also be transferred from the Home Office to the renamed department, as should responsibility for the BBC World Service which at the moment is held by the Foreign Office, the MPs said. George Parker, Westminster

Subsidy for N Ireland utility

The government yesterday announced details of a £16m (\$24.48m) subsidy for Northern Ireland Electricity, the privatised utility. It represents the first tranche of a £60m programme over 3 years, to offset the rise in electricity prices in Northern Ireland, which are around 23 per cent higher than the UK average.

The move to provide support to a privatised utility was cautiously welcomed by Offer, the Northern Ireland electricity regulator, and follows a critical report last December from the Commons Northern Ireland committee. The price subsidy announced yesterday will be paid to NIE to reduce tariffs by around 3 per cent, bringing the current electricity price rise down to around 2.3 per cent for 1996-97.

Trico to expand Welsh plant

Trico, a US-owned motor components company, is to create 150 jobs in a £5m (\$7.65m) expansion at Pontypool, south-east Wales. The company, which has been at Pontypool since 1992, has an existing workforce there of 435 people. It is increasing production after reaching a distribution agreement for its wiper blades with NGK of Japan. The expansion, which has grant support from the Welsh Office, will also enable Trico to diversify its range of products. Roland Adburgham, Cordiff

Jersey to protect partners' assets

The partners of Britain's leading accountancy firms will now be able to protect their personal assets from big law suits by registering their partnership in Jersey. The island's parliament yesterday voted by 25-19 to allow limited liability partperships to be established on the island

Under the new law firms are still liable to be sued, as are negligent partners, but the assets of the rest of the partners are safe. Two substantial UK firms, Ernst & Young and Price Waterhouse, helped the Jersey authorities draft the law and

both are enthusiastic about taking up registration.

There is strong pressure on the UK government to allow limited liability partnerships in the UK. The Department of Trade and Industry is looking at a wide range of options on professional liability. The Jersey legislation follows similar laws passed at state level in the US.

Philip Jeune and Jim Kelly

Machine tools deficit Executives 'were underpaid' Britain experienced a big trade deficit in metalworking machine tools in the first quarter of 1996, after a surplus in the

equivalent period a year earlier, says the Machine Tool Technologies Association, the main trade body for the industry. recent experience of recruiting two executive directors from The change to a deficit in the first three months of this year of £32.9m (\$50.33) from a surplus of £5.6m in the equivalent imports. For the whole of last year, machine tools recorded a deficit of £121.6m compared with a surplus of £17m in 1994. Machine tools have slipped into deficit partly as a result of Mr Kevin Bond, former chief executive of the National Rivers Authority, received a large rise when he joined Yorkshire large investment programmes in UK industry. last month as head of the Water business on a salary of

Peter Marsh, London

One-day strike at offshore yard Discussions are under way to resolve a dispute which on Monday triggered an unofficial one-day walkout by 900 work-ers from Amec Process and Energy's offshore fabrication yard at Wallsend in north-east England.

The unofficial strike was the first industrial action at the site, which employs 2,500 workers, since radical changes in pay and conditions were agreed nearly a year ago. Over the past year the facility has won orders worth around £200m.(\$306m).

Chris Tighe, Newcastle upon Tyne

'Cheaper' commuter fleet renewal proposed while pressure mounts to reroute freight line

Train manufacturer offers modernisation deal

By Charles Batchelor, Transport Correspondent

train order was placed in the trains could be modernised for a quarter of the cost of build-Mr Svärd said modernisation ing new ones and given a furwould cost about £250,000 (\$382,500) per carriage - for the posals launched yesterday by a

ing companies would be able to afford to upgrade their fleets at an acceptable cost. Rolling stock manufacturers

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although rail industry managers said this costing was opti-Adtranz would take 25-yearold rolling stock and replace

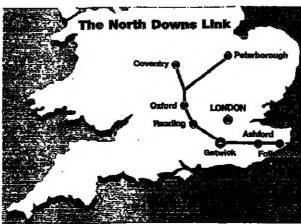
pearly three years since a new

new trains would have crumthe prospect of refurbishing ple zones to absorb impacts

old trains because they do not expect a significant volume of orders for new ones. It is pearly three years since a new crash. "Slam" doors would be replaced by electric doors and interiors would be redesigned with safe, fire-proof seats. A decision to go ahead with

Adtranz's proposed modernisation would depend on the train operators and the rolling stock leasing companies jointly agreeing to finance the upgrading. The leasing companies would extend the life of their assets and could charge the train operators slightly more

has yet to be sold.



haven't learned anything. In low following the company's

group of municipal

The activities of the London Channel Tunnel Group have been given additional urgency by proposals for a dedicated freight route to be built partly in tunnels under London and by growing congestion on gesting that capacity con-straints will soon become a problem," the group added.

OBITUARY

It is with deep regret that we have to announce the death on June 29th 1996, as a result of a tragic accident, of the longserving Chairman of Veba Oil Operations B.V.,

Mr. Salem A. Farkash

Mr. Farkash was 60 years old. He had been Chairman of Veba Oil Operations since 1980. With enormous commitment he played a decisive role in the development of Veba Oil Operations into one of the leading oil companies in Libya and led the company with great skill through a difficult period.

His distinguishing characteristics were not only great experience, an understanding of people, a marked sense of responsibility and dependability, but also his untiring work for the company and its

It is with profound gratitude to Mr. Farkash that we take our leave of him. We shall honour his memory.

Veba Oel AG The Board of Management, Works Councils and Employees

THE ENVIRONMENT

Caspar Henderson on the potential offered to developing countries

The solar revival

Rumours of the stillbirth of the solar industry have been much exaggerated. Nevertheless. even its most optimistic supporters admit that it has Solar spotlight failed to generate much success in two areas where

its potential ought to be greatest. In large plants supplying power to national grids, and stand-alone schemes for the more than 2bn people who do not have access to a grid, electricity produced by photo-voltaic (PV) cell technology has until recently not been considered feasible without subsidy, or at least the removal of subsidy from rival generation technologies.

But this perception could be about to change. Where communi-ties are more than a few miles from a national grid, PV systems can already provide the most costeffective solution for basic energy needs. "The barriers are no longer technical," says Jenniy Gregory of

problem is attracting capital." In a book* to be published this autumn. Gregory writes that suc-cessful models for standalone solar power projects already exist in the Dominican Republic, Honduras, Sri Lanka, India and elsewhere. In virtually every case, though, international seed funding was essential.

But, she says, more local use of hire purchase, revolving loan schemes and other financial innovations could turn the current trickle of projects into a flood.

The experience of a remote small village in Sudan's North Kordofan province shows what can happen. After the World Health Organisation installed a PV system to keep vaccines cool at the village clinic, elders placed a small tax on sugar production. Within a few months. they had raised enough to buy a solar-powered cooling system for

the mosque.
As for big, commercially competitive solar power projects, two recent agreements suggest such schemes are in sight for two countries. India and China, that are among the hungriest in the world for energy. In India, the Rajasthan State Electric-ity Board has signed a 25-year power purchase agreement with Amoco/Enron Solar for power from an array to be pumped directly into the grid. Construction is scheduled to begin soon on a plant in the Thar Desert for supply of 50MW in the first instance and possibly 150MW in subsequent years.

In China, Amoco/Enron has signed an agreement with the State Science and Technology Commission for a joint feasibility study for a solar cell manufacturing centre

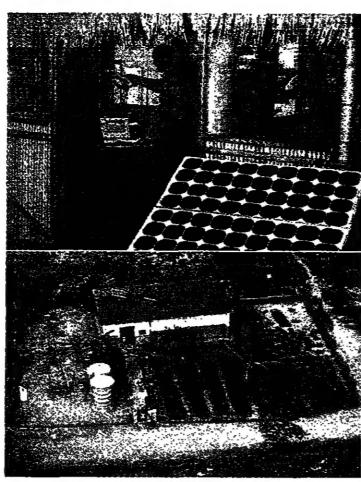
and 150MW generating facility.
"We think there is a great big market out there and we are going for it," says Bob Kelly, executive vice-president of Enron and co-chairman of Amoco/Enron Solar, a joint venture between Amoco, the US oil company, and Enron, North America's largest natural gas com-

pany.
While the Rajasthan project will meet only a tiny fraction of India's energy demand, it could set an important precedent for solar power to a national grid at truly competitive prices. With India's economy apparently in the early stages of "take-off" (GDP grew by about 6 per cent last year, energy use by 7 per cent) and a population projected to overtake China's, choices made now

will reverberate far into the future.
As in other rapidly growing countries, energy use per dollar of GDP in India is high compared with the US and western Europe. So, until there are greater incentives for energy efficiency, enormous amounts of power will be needed to fuel growth.

A recent study by Kleinwort Benson said that maximising domestic coal stock use and minimising expenditure on foreign oil and gas would make the best economic sense for India. But the study does not account for the cost to the environment and Indian society of fossil fuels used on the predicted scale. Asia's emissions of sulphur diox-

ide will easily surpass those of Europe and North America combined by 2000. Its emissions of carbon dioxide will overtake the west no later than 2015. Coal is the big-gest source of both. Photovoltaic



A model of a solar-powered bamboo home (top) and a working PV system in Brazili

technology can deliver power virtually without pollution and without heavily burdening the balance of payments of a country that has to import fossil fuels.

nlike large-scale hydro-power projects, it is seldom likely to cause severe dis-ruption. Damage to the ecology of desert regions that suit solar arrays best is unlikely to be significant, and few people live there. Bhairon Singh Skekhawat, Rajasthan's chief minister, estimates the state could easily generate 10,000MW of solar power. Finance for the Ralasthan plant, which could cost about \$100m (£64m), has yet to be finalised. A proportion of the equity capital will come from Amoco/Enron itself. Kelly says the company is still negotiating with the Global Environmental Facility, a fund set up after the Earth Summit in Rio in 1992 and administered by the World Bank to encourage initiatives miti-

gating greenhouse gas emissions. The Indian Renewable Energy Development Agency, or IREDA, could be among those providing some backing. The existence of the agency - halled internationally for the success of the revolving fund it

operates for renewable energy projects - is indicative of an outlook that has put India on the road to becoming the first country outside the OECD with large-scale solar wer at commercial rates.

Renewable energy technologies are set to boom in India, according Vijay Bakthvatsalam, the agency's director. By 2015, he estimates, the country could have 16,000MW on line - or 8 per cent of total

generating capacity. But the agency remains cautious about the role of solar power in the total renewable energy mix. Although it agrees that solar has by far the greatest potential in the long run, it envisages only 10MW-15MW coming on line in the country each year until 2015. The next few months in Rajasthan could determine whether a very different sce-

Financing Mechanisms for Rene able Energy Systems: A Guide for Development Workers. Jeaniy Greg-ory. To be published by IT Publica-tions (Tel +44 (0)171 436 9761) this

Previous articles in this series appeared on June 5 and 12.

Viewpoint · By Ronald McLean and Jonathan Shopley

Green light shows for corporate gains

Dow Chemical aims to show that investment can bring high returns

cal announced recently that it planned to invest \$1bn (£645m) in new environmental grammes during the next 10 years, the real news was not the size of

the proposed expenditure but the company's prediction that it would make a return of between 30 and 40 per cent on its investment.

For several years observers in the business community have been saying that companies can enjoy tangible gains from environmental initiatives. But solid evidence of these benefits - the kind of proof that wins the confidence of corporate decision-makers - has been slow in coming

A recent survey by Arthur D. Little, the international consultancy, found that companies often face a barrier between their business activities and environmental functions, which stops them realis-ing any associated benefits. Of 185 North American companies surveyed in a range of industries, only 4 per cent reported that they treated environmental issues as a fully-fledged part of business man-

More than 70 per cent said the main obstacles to progress on such issues were the separate professional culture of environmental management and the inability of ss managers to see environmental management as a business

These companies are contending with a corporate "split vision". The business vision is active and posttive, focusing on growth and profitability, but the environmental one is passive and negative, concerned with satisfying regulators and appeasing environmentallyconscious customers and pressure groups. Because of this split vision, companies often perceive environmental actions as barriers

ties for success. The good news, as companies such as Dow are showing, is that the split vision is not inevitable. Those that bring together their environmental and business visions may gain substantial bottom-line results

Xerox, for example, launched a programme in 1991 to lower costs across its product life cycle. Partly in response to proposed product take-back legislation in Germany and other parts of Europe, it explored relevant activities, including product recovery, disassembly, and remanufacturing or recycling It discovered that its copiers had considerable residual value - in numerous components that last far longer than the product as a whole. As long as the company simply allowed old copiers to be

disposed of, that value was lost. After Xerox launched its takeback initiative to recapture and remanufacture parts for use in new products, it achieved almost immediate results. In its first year, the initiative increased the company's net earnings by \$50m as a raw material costs and reduced inventory charges. Recent calcula-tions put the initiative's total contribution at about \$200m for a

hree-year period. For Baxter International, packaging is one area where a com-bined focus on business and environmental goals is winning benefits. After a task force was set up by the company's cardiovascular division to reduce the per-unit weight of packaging by 15 per cent it looked for options that cut packaging and cost without raising prices or inconvaniencing customers. As a result, one material was replaced by another that eliminated the need for one layer of packaging and was more easily

ecyclable, saving \$2m annually. Bristol-Myers Squibb is getting sustained results conducting life cycle reviews of all existing products and expects to complete the process, which began in 1992, by 1997. In each review, an employee team representing a range of business areas and skills use product life-cycle analysis tools to identify environmental advantages and cost savings. To date, with more than half the reviews completed,

average savings of \$300,000 on each

Despite success stories such as those, many corporations continue to question whether such performance gains can be repeated or sustained. Examples abound of environmental initiatives that began with a great fanfare and then fizzled out

One critical factor is building management support by proving the environmental initiative will work. Despite conventional wisdom, many successful programmes did not start with senior manage ment support driving them. Instead, they demonstrated success in one business area, then used those results to interest senior management and spread the pro-

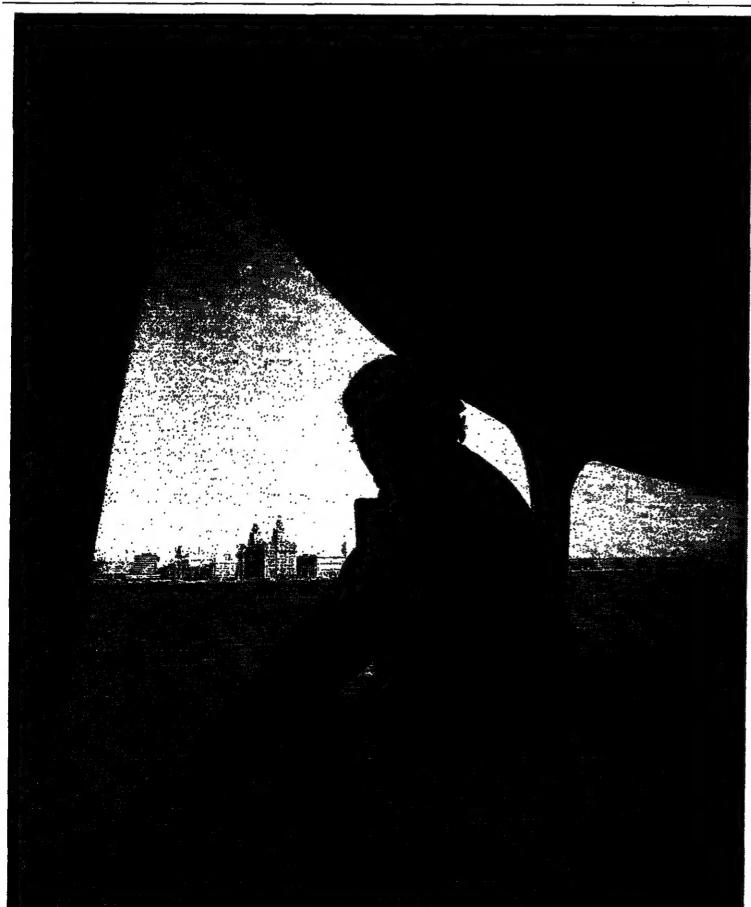
gramme through the company.
It is equally important to recognise and address how much environmental managers have worked in isolation from business con-cerns. Even the best managers trained in technical, engineering, and scientific disciplines and accustomed to keeping the company in compliance with complex regulatory codes - may not be skilled in business basics.

To work effectively with business staff on environmental initia-tives that offer paybacks, most of today's environmental managers need to acquire skills for framing environmental issues in business terms and communicating their bottom-line value. They must state objectives clearly and provide tangible measures of results. Baxter's packaging initiative succeeded in part because the goal was familiar and compelling to business managers: to meet or exceed customer

expectations while reducing costs. Through approaches like these leading companies are reshaping the relationship between business goals and environmental activities. They recognise that only limited results can be won by demanding that business staff should meet environmental obligations; instead, they let the recognition of business value drive their environmental efforts.

Ronald A.N. McLean and Jonathon B. Shopley are based in Brussels at Arthur D. Little's European Environmental Management practice.

WSH RDANI



Thinker, tailor, screenwriter, sailor, rich man, foreman, businessman or comic? (It must be something in the water.)

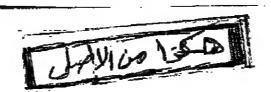
From Lord Leverhulme to Leonard Rossiter, William Pilkington to Willy Russell, Merseyside has always been incredibly rich in one natural resource. Its people.

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been proved that, whatever we may think from watching the screens in our own homes, the world is awash with high quality television. Six television prizes have been awarded, two each for drama, arts and documentary, each worth L15m (about £6,300) and in every case there have been arguments, perfectly reasonable ones, in favour of other contenders. Fifteen or 20 years ago festivals of this sort attracted an irritating proportion of "duty" entries which looked as though they had been produced by some national tourist office and clearly stood no chance of a prize. Now such entries are rare. Out of 35 documentary entries this year at least ten could have been in the running for prizes. In fact the main award, the Prix

Zinc stoats - and the Prix Italia Italia itself, went to Return To The Dying Rooms, a horrifying account of cruelty to children - particularly girls - in Chinese orphanages made by the UK's Channel 4. Shot on a

hidden camera, it shows appalling scenes of children and even babies lashed all day to commodes with the sort of tics you see in caged animals. China's rapid journey towards the status of top world power was one of the unplanned themes of this year's festival, and it is hard to see how the Chinese will be able to ignore the evidence of this programme if they want to be taken seriously among other major

The "special" prize for documentaries (not second prize, perish the thought, yet clearly not first prize) was awarded to Troublesome Creek: A Midwestern, an interestingly personal yet indulgently long programme about American farming which was described here last week.

The Prix Italia for television drama (32 entries) was won by HRT of Croatia with Isprani, translated as "The Washed Out", a story about the difficulties, emotional and practical - where do you make love when your family shares a two-room flat with a refugee? - of young people attempting to begin their lives in a society which has been literally and metaphorically smashed to pieces. In this category the special prize was given to Charlot & Charlotte, a production which, though well made and funny, tries a little too hard to be the Danish Thelma And Louise, and suffers from the longueurs familiar from so many television serials. Smallest and weakest of the three

categories was music and arts, which attracted 24 entries. Here the

Prix Italia went to Germany's Tod

Für Finf Stimmen or "Death For Five Voices", a documentary about

a 16th-century Italian composer named Gesualdo whose music is

time that nothing else like it was heard until the coming of Wagner. Whether or not you like his work (and you might think that 16th-century Italian music had been doing pretty well without Signor Gesualdo), some of us found the style of the programme with its jokey pursuit of ghosts somewhat trying. The special prize was awarded to the BBC's Enter Achilles, a television version of the latest stage production by the excitingly different all-male modern dance company DV8. o British television

maintained its long standing record as the most successful competitor at this festival, winner over the years of more than twice as many top prizes as the next most successful nation, France. Outsiders, scornful of the readiness of television people to

said to have been so far ahead of its award prizes to one another, may question the significance of such a record, and their doubts might be strengthened by the scepticism of some insiders. Back in the 1960s Gus MacDonald, now a big wheel in Scottish Television but then a simple left-wing programme maker, dismissed the entire panoply of Silver Swallows, Golden Roses and Bronze Bears as "zinc stoats".

He was pretty well right. An awful lot of television awards came from events where juries included starlets, football players and local politicians. The value of such prizes was highly questionable. There was just one festival where integrity seemed virtually impregnable. At the Prix Italia, oldest of the lot, launched as a radio event in 1948, you were judged by your peers: the juries consisted entirely of programme makers. Documentaries were judged by documentary makers, arts programmes by producers of arts programme

Most important of all was the simple rule: in any category an organisation could have either a programme or a juror but never

As a result, the bad smell which

hung around so many festivals where jurors belped award prizes to programmes from their own companies, was absent from the Prix Italia. But the Italia organisers do not seem to have realised how centrally important these arrangements were in earning unique prestige for their event. A couple of years ago, arguing that there was now so much co-production that it was virtually impossible to create a wholly disinterested jury, they scrapped the old rules. Consequently this year we had

the unedifying sight of the Prix Italia for television music and arts programmes being awarded to ZDF by a jury whose chairman came from ZDF, and the special prize in

television drama being awarded to Danmarks Radio by a jury whose chairman came from Danmarks Radio. These may be the most honourable individuals in the history of the world, and the programmes in question the most deserving. The point is that under the old rules nobody ever had to even wonder about individual integrity because the system itself had integrity built in.

f course what matters most is to have the evidence out before the world that whatever the popularity of soap operas and programmes of home video clips showing bridesmaids tripping over their dresses, there is still a large quantity of worthwhile television being made in countries as diverse as Japan and Poland, Canada and Hungary, Brazil and Switzerland. Ruman nature being what it is, that is unlikely to occur without the inducement of prizes. Since there are now said to be 94 festivals of television and video around the world there is no difficulty in finding a prize or two. Finding prestige and integrity is another matter.

Theatre/Alastair Macaulay

The Aspern **Papers**

Papers - the 1955 stage adaptation of the Henry James story by Michael Red-grave - which demonstrates to perfection how a live performance can illumine a classic work of fiction. It occurs in the middle of the play, and it is of all things - a song. The aged Juliana Bordersau has commanded her plain and no longer young niece, Miss Tina, to sing to their lodger, Henry Jarvis, an old song, "The Green Hussar", which Miss Tina used to perform sweetly in her youth and whose words had been written by an unnamed noet of Miss Bordereau's Jouthful acquaintance.

The song itself, sung unac-companied, is deeply charming, with the flowing lines and little flourishes that mark such Irish folk songs as "She moved through the fair". And as Miss Tina sings it, you hear in her not only her current tentativeness but also a lightness and youthfulness of voice that sur- ... (Curtain.) Not long before, she prise you - though these things sound now carefully preserved, as if in tissue. You even hear the governessed correctness with which she must have learnt the song. As the song continues, its stillness and beauty exert a potent spell as they must once have done back in the days when Miss Bordereau was still a great beauty and had a great poet's love. Sung again now, it also hints now at the feeling that Miss Tina hopes may be dawn-

ing between herself and Jarvis. Hannah Gordon, who plays Miss Tina in this revival, has surely done nothing better. Much of her accomplished performance is along the lines of Olivia de Havilland's celebrated film performance of another frustrated Jamesian spinster, Catherine Sloper, heroine of The Heiress. The romantic hopes and doubts of the character are visible in her eyes, and she makes Miss Tina's charm and inhibition apparent in equal measure. But the song is something else. Revealing things in Miss Tina and in Hannah Gordon we had not known, it becomes the beating

here is one astounding heart of the play. At the end, incident in the current as Miss Tina opens the trunk revival of *The Aspern* containing the Aspern papers, she comes across a green hussar's uniform; and the tiny pang she experiences is conveyed by Gordon with eloquent

economy.

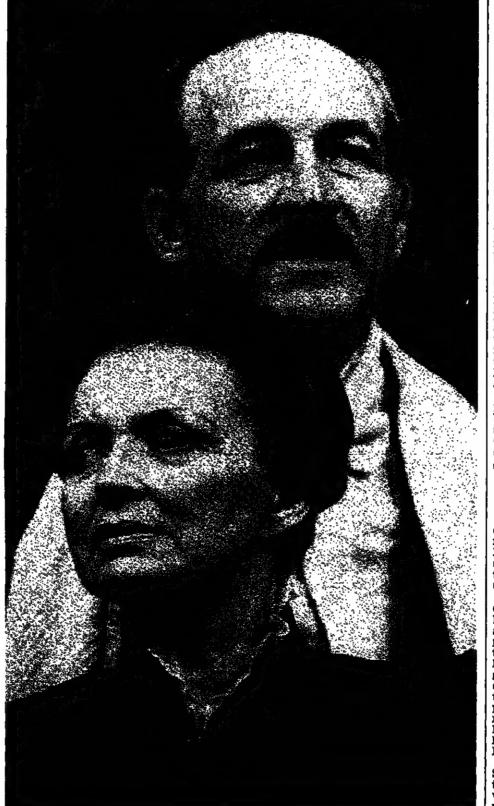
There is little other reason to see this staging. Instead of the original features and brilliant narration of Henry James's story, Redgrave's adaptation certainly as directed by Auriol Smith - keeps raminding you of several other stories. In particular, The Aspern Papers seems here heavily derivative (as it is not when you read it) of The Queen of Spades: the old lady with a secret, the obsessive younger man, and the niece caught between them.

🧻 he old Miss Bordereau, played with stale flamboyance by Moira Lister, ends the second act by advancing on Jarvis with her stick, calling him "Publishing scoundrel!" and then collapsing in a heap. has had a contrived little mad ie of teveriing i and fantasies - which Lister rattles through with a foolish briskness that destroys its

Daniel J. Traventi judges the quasi-English accent of the American critic nicely, but the effort seems to cost him all vocal comfort. Like a fading soprano, he spends the play switching between nasal and chest registers to disconcerting effect. Vincent Boluda makes an impressive West End debut as the sly manservant Pasquale, and the audience enjoys Yvonne Bonnamy in her impersonation of Assunta, the

suspicious Italian maid. Sean Cavanagh's set does a good deal to make us believe we are in a fading old Venetian house Some poor stagehand is kept busy on an old wind machine during a storm when he is not making the shutters bang to and fro. Meanwhile we have a continuous view of the garden, most of whose many leaves stay myste-riously unruffled by the gale.

Wyndhams Theatre, WC2.



Romantic hopes and doubts: Hannah Gordon and Daniel J. Travanti

Theatre/Ian Shuttleworth

A restless Richard

teven Pimlott's production of Richard III, greeted with much head-scratching last autumn at Stratford, remains a bewildering hotch-potch. It boasts both narrative and linguistic clarity (necessary but rare for Shakespearean histories), and a number of central performances which, whilst majestic, convey curiously little sense of majesty. And at its centre is David Troughton's interpretation of Richard Crookback of Gloucester as the consummate performer: the scene in which Richard is pressed to accept the crown is played as a blatant piece of stage management. This Richard never switches

off: he is always assuming a role, always delivering lines rather than speaking words. Dressed in flaming red, he aims for the impish appeal of the Vice in a medieval morality play. The net effect is that tragedy is something which happens, if at all, around Richard rather than to him.

Tobias Hoheisel's set - composed largely of a livid green, blasted plain with a single stunted tree (more Godot than Gloucester) and an upstage closet-cum-truck which serves

as a variety of courts and council chambers - also contains an area demarcated as a kind of limbo. Here the ghosts of those unfortunates despatched by Gloucester periodically congregate; Queen Anne's death is signified by Rachel Sanders walking with slow resignation from the court into this shaded quarter, a move later repeated by Richard himself after the battle of Bosworth Field. The battle is not presented at all: Richard crosses an empty stage to sit in darkness, slowly and ironically applauding Henry of Richmond's closing victory speech.

hints that even this capering monster may have a conscience. notably in conflicts with his mother (whom, unfortunately, Diana Coupland renders as more petulant than wrathful), though to all intents and purposes Richard's despair comes out of nowhere. The supernaturai dream on the eve of Bosworth is staged with Richard and Henry sitting side by side at a council table as the succession of shades file in to damn and bless them respectively, but the scene remains

here are few earlier

potent; the audience has been shown hardly any indication of a "real" Richard, and so does not engage with his downfall. Michael Siberry makes a noble, lyrical Clarence, and Paul Bentall's Hastings is one of the few loci of humanity; moreover, Richard's outburst against Hastings, sending him scurrying under the table, is virtually the only occasion on which we see his malevolence unbridled. John Nettles growls and looms obligingly as Buckingham, but to my mind Nettles on stage is always visible doing acting. Rachel Sanders is handicapped as the Lady Anne in that she is never able to

make the dramatic running. Imposing interpretative concepts upon plays too often means that a particular aspect works magnificently at the expense of the whole tapestry. Pimlott's Richard III is a case in point: the magnitude and relentlessness of Troughton's performance leaves little room for us to glimpse the spirit either of Richard or anyone else.

In repertory at the Barbican Theatre, London EC2 (0171-638

Tiche marketing has ensured the Lufthansa festival a corner of its own in the crowded June diary of London music. It always keeps to its Baroque theme, and has decided to restrict its activities to its main venue, St. James's

Church in Piccadilly. This year there are a dozen events, supplemented by free lunchtime recitals by young artists. As the festival has progressed, the dominance of the early music movement by British and Dutch groups has given way to a broader range of activity within Europe and that is reflected in this year's programme, which includes a return visit by Musica Antiqua Köln and appearances by Musica ad Rhenum and the

Italian Accademia Bizantina. The home team is led by the St. James's Baroque Players. the festival's resident group. whose prime performance this year was Handel's oratorio, or "bawdy opera". Semele. No matter that we had recently

Music Lufthansa Baroque

seen it staged at Covent Gar-den. Ivor Bolton's concert performance had a quite different feel about it, mainly because he tailors his swift speeds and light-fingered style to suit the church's relatively intimate acoustic.

Given the uniformity of style that he imposes on his excel-lent musicians, Bolton had chosen an unexpectedly mixed cast of singers. At the "authen-tic" end, there were Ruth Hol-ton as a light, flutish Iris and Nancy Argenta, a pure-voiced though stronger soprano as Semele. In the opposite corner were Della Jones's truly operatic Juno, wickedly overplaying her chest register, and Alan Ewing's sonorous Cadmus. Paul Agnew sang "Where'er you walk" with

good-mannered musicianship and occasionally shallow tone; Catherine Wyn-Rogers was an effective Inc. This seems to be Semele's year and it will be interesting to compare Bolton's performance with William Christie and Les Arts Florissants at the Proms in August. The night before, the festival

had kept up its policy of inviting interesting European Baroque groups by bringing over Le Concert Spiritue directed by Herve Niquet from Paris. The programme con trasted motets by Lully with those of his contemporary and arch rival at the court of Louis XIV, Paolo Lorenzani. At the time Lorenzani was the clear loser, but his music has a clear-sighted purpose of its own and Niquet's excitable performances meant that there was never a dull moment.

Richard Fairman

Further events in the Lufthansa Festival tonight and

INTERNATIONAL

■ AMSTERDAM

CONCERT Concertgebouw Tel: 31-20-5730573 Radio Kamerorkest: with conductor Ton Koopman and soprano Luba Orgonasova perform works by Mozart; 8.15pm; Jul 5

BARCELONA

THEATRE Mercat de les Flors Tel: 34-3-3017775 Richard III: by Shakespeare (in French). Directed by Matthias Langhoff and performed by La Fonderie. The cast includes Hugues Boucher, Stéphane Comby, Maxime Lefrançois and Jean-Michel Portal. Part of the Festival d'estiu de Barcelona GREC 96; 10pm; Jul 3, 4,

BERLIN

EXHIBITION Das Bauhaus-Archiv, Museum für Gestattung Tel: 49-30-25400278 Laszlo Moholy-Nagy zum 100.

Geburtstag: retrospective exhibition devoted to the work of the Hungarian sculptor, painter, designe and photographer Laszlo Moholy-Nagy (1895-1946), on the occasion of the centenary of the artist's birth; to Dec 1996

■ BIRMINGHAM

FESTIVAL Birmingham International Jazz Festival Tel: 44-121-454-7020 Birmingham International Jazz
 Festival: with 200 performances at 50 venues and more than 650 musicians the 12th Birmingham International Jazz Festival features 70 bands providing 400 hours of music; from Jul 5 to Jul 14

BONN **EXHIBITION**

Kunst- und Austellungshalle der Bundesrepublik Deutschland Tel: 49-228-9171200 The Great Collections IV: Moderna Museet, Stockholm: this exhibition features approximately 200 works of modern art from the collection of the Moderna Museet in Stockholm, beginning with examples of early modern art up to contemporary art; from Jul 5 to Jan

■ CHICAGO

EXHIBITION Art Institute of Chicago Tel: 1-312-4433600 Splendors of Imperial China: Tressures from the National Palace Museum, Taipei: almost 400 works spanning four millennia have been selected for this exhibition from the collection of the National Palace Museum in Taipel; to Aug 25

DUBLIN CONCERT

National Concert Hall - Geoláras Máisiúmta Tel: 353-1-6711888 A Feast for the Fourth!: concert celebrating Independence Day, featuring ragtime planist Colm 'Stride' O'Brien, boogle and blues planist Stan Greig and harlem stride planist Peter O'Brien; 8pm; Jul 4

■ FLORENCE

OPERA Teatro Comunale Tel: 39-55-211158 Aida: by Verdi. Conducted by Elio Boncompagni and performed by the Coro e Orchestra del Maggio Musicele Fiorentino. Soloists include Dolora Zalick and Nina Rautio: 8.30pm; Jul 3, 4, 5

HANOVER EXHIBITION

Sprengel Museum Tel: 49-511-1683875 Zeitströmungen: exhibition of the collection of modern art of the Niedersächsische Sparkassenstiftung. The collection includes works by German artists such as Georg Baselitz, Sigmar Polke, Gerhard Richter and Rebecca; to Jul

HUMLEBAEK

EXHIBITION Louisiana Museum of Modern Art Tel: 45-42 19 07 19 NowHere: a large-scale

presentation of International contemporary art. The exhibition is organized in collaboration with four guest curators; to Sep 8

LONDON

CONCERT St. John's, Smith Square Tel: 44-171-2221061 Orchestra and Choir of St. John's, Smith Square: with conductor John Lubbock and pianist You-Chiung Lin perform works by Kern, Barber and Gershwin; 7.30pm;

Wigmore Hall Tel: 44-171-9352141 François-René Duchable: the planist performs works by Beethoven, Liszt, Ravel and Mussorgsky, 7.30pm; Jul 4 EXHIBITION

National Portrait Gallery Tel: 44-171-3060055 David Livingstone and the

Victorian Encounter with Africa: this exhibition offers an account of the life and times of David Livingstone. from his birth and childhood in the cotton mills of Lanarkshire to his lourneys as missionary and explorer across the continent of Africa; to Jul

■ LOS ANGELES CONCERT

Hollywood Bowl Tel: 1-213-850-2000 • The Hollywood Bowl Orchestra: with conductor John Mauceri and vocalist John Denver perform works by Bernstein, Rodgers, Sousa and Copland; 7.30pm; Jul 3, 4 EXHIBITION

Los Angeles County Museum of Art Tel: 1-213-857-6000

 The White House Collection of American Crafts: exhibition featuring works by 72 craft artists working in the media of glass, wood, clay, fibre and metals; from Jul 4 to Sep 29

MILAN

OPERA Teatro alla Scala di Milano Tel: 39-2-72003744 La Fille du Régiment: by Donizetti. Conducted by Donato Renzetti and performed by the Opera alla Scala. Soloists include Mariella Devia, Valeria Esposito and Giuseppe Sabbatini; 8pm; Jul 5

■ NEW YORK EXHIBITION

Museum of the City of New York Tel: 1-212-534-1672 Gaelic Gotham: A History of The Irish in New York: exhibition featuring over 400 original artefacts that are displayed in thematic and chronological sections; to Oct 27 The Metropolitan Museum of Art Tel: 1-212-879-5500 Bare Witness: Clothing and Nuclity: exhibition examining costume in its dual role as both concealer and revealer of the female

PARIS

century; to Aug 18

L'Opéra de Paris Bastille Tel: 33-1 44 73 13 99 Lucia di Lammermoor: by Donizetti. Conducted by Bruno Campanella and performed by the Opéra National de Paris, Soloists include Roberto Frontali, Andrea

body from the 18th to the 20th

Rost and Stuart Neili; 7.30pm; Jul 4,

SCHILESWIG FESTIVAL

Schleswig-Holstein Festiva Tel: 49-40-2482110 Schleswig-Holstein Musik Festival: main theme in this year's estival, featuring some 100 concerts, is the music of Schoenberg, Berg and Webern. Opening and closing concerts are performed by the NDR-Sinfonieorchester, featuring works by Anton Bruckner, from Jul 6 to Aug 25

TEL AVIV

OPERA The Opera House Tel: 972-3-6927777 ● The Bartered Bride: by Smetana. Conducted by Mark Elder and performed by the Israelian Opera. Soloists include Yevgeni Shapovalov, Marina Levitt and Ludek Vele; 1pm; Jul 5

■ WASHINGTON

EXHIBITION

Arthur M. Sacider Gallery Tel: 1-202-357-2700 Traders and Raiders on China's Northern Frontier: exhibition reflecting the flourishing contacts and complex interrelationships between China and its northern neighbours; to Sep 2 Listing compiled and supplied by ArtBase The International Arts Database, Amsterdam, The Netherlands. Copyright 1996. All rights reserved. Tel: 31 20 664 6441

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Financial Times Business **Tonight**

CNBC:

08.30 Squawk Box

10.00 European Money Wheel

18.00

Financial Times Business Tonight



Edward Mortimer

Exit the atomic age

Nuclear weapons could be reduced and eventually abolished if the countries that control them bury their differences

Tanzania, another is dealing Nuclear weapons are with those responsible for the yesterday's issue. There are 1994 genocide in Rwanda. no longer two superpowers poised to destroy each other Defence counsel for the and the rest of us at the touch accused could argue that their of a button. Iraq has been dis-armed. North Korea has been crimes pale into insignificance beside the utter devastation of bought off. The Non-Proliferahumanity which use of tion Treaty has been extended indefinitely. Mr Tony Blair, nuclear weapons would cause. The issue is related to the test ban talks, which broke leader of Britain's Labour down because Britain, Russia and China, along with Pakis-tan, insisted that the ban party, says he would press that button if necessary, but

no one any longer imagines that a British prime minister could come into force only when ratified by all eight would ever have to take such known nuclear powers - the five recognised by the treaty Consensus reigns, right? plus the three states (India, Wrong. Negotiations on a Israel and Pakistan) which comprehensive test ban have just broken up without agreehave not signed the treaty and are deemed to be on the ment; and next Monday the International Court of Justice "threshold" of nuclear status. in The Hague will deliver a long-awaited advisory opinion India has served notice it will not accept the test ban unless on the legality of using the five declared nuclear powers agree to a timetable for total nuclear disarmament. nuclear weapons or even threatening to do so.

no ruling, arguing in effect

that the issue is political, not legal. (The fifth, China, has

taken no part in proceedings.)

It will be surprising if the

court, generally a cautious

body, comes out with a ruling that in effect criminalises the

world's most powerful govern-

ments. But the issue is a

tricky one. Chemical and bio-

logical weapons have now

been banned outright, and the indiscriminate killing of civil-ians with any sort of weapons

is condemned under the

Geneva conventions. Next

door to the court in The

Hague, an international crimi-

nal tribunal established by the

UN security council is busily

prosecuting people accused of

war crimes in former

Yugoslavia, while in Arusha,

Its opinion on this matter On one level, India's stand is unrealistic and exasperathas been requested not by some ad hoc bunch of crackpots but by the World ing, Tactically, it has succeeded in provoking an argu-Health Organisation and the ment among the declared UN General Assembly. Fortynuclear powers: the US and three governments have made written submissions, and 32 France would accept a compromise allowing the ban to come into force before India made oral statements during public hearings last autumn. ratifles it, while the other More than two-thirds argued three, with Pakistan, are for illegality. But four of the standing firm. But the issue should not be five recognised nuclear powers urged the court to make

The nuclear club

7.770

Less than 100

60-120

Declared and undeclared powers (January 1995)

Approximate size of arsenal (numbers of stockpiled strategic warheads)

end of the cold war has made possible a serious discussion about the future of nuclear weapons, and in the US that discussion has begun. The Henry L. Stimson Centre*, a Washington think-tank named after the US secretary of war under whom the atomic bomb was first developed, is running a project "to encourage serious consideration of the conditions under which all states might move toward the progressive elimination of all

weapons of mass destruction". The project's steering committee is chaired by Gen Andrew Goodpaster, a former supreme allied commander in Europe. It includes three other senior retired generals and such luminaries of the US defence scene as Robert defence in the 1960s) and Paul Nitze (arms control negotiator for successive administrations

from Truman to Reagan). its second report, published last year, sets out a four phase strategy for eliminating nuclear weapons. In the first phase, which could be completed by 2003, the US and Russia would bring their arsenals down to roughly 2,000 warheads each (below the level already agreed in the Start II treaty). In the second,

being detected.) This programme would take several decades to implement. Each phase could only begin when the previous one was overnight. But that does not mean we must resign ourtemplate a programme for

In such a world, no nonproliferation treaty can hold indefinitely, whatever it may say on paper *21 Dupont Circle NW, Fifth

reduced to mere tactics. The all five declared nuclear powers would come down to a few hundred warheads each, while the threshold states would be enticed out of the closet to join in the process of multilateral reductions.

In Phase III all remaining arsenals would be cut to tens of weapons, held under international safeguards; regional and global collective security regimes would be developed: and nuclear powers might agree to become "trustees" nuclear weapons, forswearing first use but threatening to respond to any nuclear attack

against any state. Finally, in Phase IV residual arsenals would be eliminated. Capability to reconstitute them would be internationally monitored, and all materials or knowledge relevant to would be placed under stringent control. The US and other former nuclear powers would keep components of their former arsenals under international safeguards. (The storage sites would have to be numerous and dispersed, and the verification regime strict enough to ensure that no violator of the ban could amass enough nuclear weapons to destroy all the sites without

clearly seen to have worked. No one imagines that nuclear weapons can be wished away selves to living with them forever. The greater danger is that, by refusing even to condoing away with them, established nuclear powers will appear to be relying on them to perpetuate an unequal international order, in which some states are entitled to greater security than others.

Floor, Washington DC 20036.

·LETTERS TO THE EDITOR·

Number One Southwark Bridge, London SEI 9HL

to fine), e-mail: letters.editor@fi.com Translation may be available for letters written in the main international languages.

No miracle for the poor in China

From Mr Paul Spray.
Sir, The World Bank's World Development Report on economies moving from plan to market ("Rapid liberalisation is starting to pay off", June 28) sits uneasily beside received wisdom on the east Asian miracle. Chinese growth continues to be extremely rapid, but the report suggests that since 1985 it has

stopped reducing poverty. One reason is that the state has halved its role - from 36 per cent of gross domestic product in 1976 to 18 per cent in 1994 - and cut transfers from wealthier to poorer regions. At a local level, health and social services have suffered. The message from the Bank seems to be more plan and less market.

Paul Spray, policy director. Christian Aid, London SE1 7RT, UK

A serious purpose

From S.D. Sandell. Sir, The conferences on family policy which Vice-President Al Gore has organised and moderated each of the last five summers may sound ridiculous to Patti Waldmeir ("Pamily values put Clintons back on moral high ground", June 25), but their purpose is deeply serious - to the family, in all of its manifestations, on the basis that this is the social unit which provides far and away the most profound support and launch pad for our future citizenry and workforce. This year's conference addressed work and the family; your correspondent presumably is aware of the extent to which corporate policy and legislation - and not only in the US - is

evolving to meet the demands of working parents.

Perhaps the informality of the conference was deceptive: nonetheless Ms Waldmeir's serious journal such as yours.

S.D. Sandell. 17 Greyhound Road, London W6 8NH. UK

Unlikely that the European central bank would be able to intervene

From Mr William L. Jacobson. Sir, I agree with Manfred Neumann ("The ins and outs of Emu", June 28) that the idea of putting an intervention obligation on the European Central Bank is ill-conceived But his contention that the absence of an intervention obligation would make a future exchange rate mechanism (ERM) more flexible than the

previous one is unfounded. In practice, the central bank would be no more likely to intervene without limit against a sustained speculative attack on a peripheral currency than was the Bundesbank. However suspect the market's motive for such an attack, the price of fighting it - an early loss of credibility with respect to its inflation fighting credentials -would be far too high.

Mr Neumann's suggestion

that the central bank be given the prerogative publicly to propose realignments is well taken. There is, of course, no guarantee that the parity it chose would cure a given ureaucrats are often wrong. But so are markets.

The preferred modus operandi is surely one in which market and central bank respect and listen to each another. And, the UK authorities might find it easier to swallow the advice of the European central bank than they did the Bundesbank's.

This points to a structural reason why ERM II would be more likely to survive than the old ERM. There is a big difference between having a single country serve as the anchor and having seven or eight countries do so. Indeed, it

was only in practice that the D-Mark came to anchor the old ERM: in theory the Ecu was supposed to do so.

The dramatic Bundesbank rate hikes which so strained European monetary relations result of the Kohl government's purchase of east German votes (great politics, bad economics). The Maastricht treaty, however, explicitly rules out any such fiscal thrust on the part of Emu member states. Where tension arises between centre and periphery, it is therefore less likely that the monetary policy of the anchor will be its

William L. Jacobson Millennium Partners, L.P., 111 Broadway - 20th Floor, New York, NY 10006, US

EU must act on airline competition

Airlines. Does that

code-sharing agreement

increase competition?

From Mr Per Stenmarck MEP. Sir, 1 appreciate Mr Austin Reid's comments (Letters, June 26) on what I wrote (Letters, June 19) about airline alliances. I also appreciate the clarification which Mr Reid made on code-sharing agreements. His comments are reassuring. However the main problem remains. Code-sharing with a great number of other companies, 11 in the case of British Midland, is a distortion of competition. It does not, in

any way, increase competition. Take the example of the

I welcome the European Commission's decision to look into the proposed alliance between BA and AA and also to take a good look at alliances that already exist. The European Union must take action, not only by

proposed alliance between

British Airways and American

encouraging competition regarding airline alliances, but also by increasing competition

in the area of ground handling at airports and creating new rules for airport charges. New rules on slot allocation and air traffic management are also urgently needed. Combined with the deregulation scheduled for pext year these improvements would increase competition and result in lower

member, transport group, European parliament, Eue Belliard 97-113, B-1040 Brussels, Belgium

Put warning label on management fads

results if future physicians

From Prof Michael S. Minor. Sir, The recent defection of Morgan Stanley chief economist Stephen Roach, the "guru of downsizing", to the position that management may have cut employee ranks too deeply is a relief to me as a husiness school professor. I never spent much time on downsizing in the classroom. Now I won't have students feeling that I have misled

Lucky me for avoiding this fad. But it brings up the deeper question of the appropriate role of business professors in "fads", especially at the graduate level, where students may be able to implement

classroom learning in short order. I shudder to contemplate the

were educated with a significant dose of speculative treatments. Would, say, ingested orange peels cure cancer, or massive doses of such and such vitamin; amino acid/etc? My hope is that, while new physicians are not left ignorant of prospective breakthrough treatments, they are introduced to them with careful coaching as to their speculative nature, and students are reminded that done before the latest wacky idea is elevated to cure. I fear that similar

to new management practices whose long-term effects have not been judged. It is a cautionary note that the "tried-and-true", while perhaps less scintillating, and provoking less discussion, at least has the force of having

circumspection is absent from business school introductions

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Conline

Fads should be treated as such, and perhaps most importantly, labelled as such.

Michael S. Minor, associate professor of marketing University of Texas-Pan Edinburg TX78539-2999. US

Andrew Adonis

fare state be

The two faces of welfare



question being asked across the developed makers look at demographic trends and government spending projections and warn of dire straits ahead. Four years ago Bill Clinton, the US president, took office pledging to "end welfare as we know it". That refrain is spreading from the US to western Europe, the cradle of the welfare state, where additional pressure to curb welfare spending is coming from the Maastricht treaty's rules on national lebts and borrowing. For the French and German governments in particular, the estabishment of a single currency

goal. That involves spending curbs, and the political will is there to attempt them. Welfare reform thus almost chose itself as the topic for the first meeting last weekend of the Oxford Forum, a seminar of parliamentarians, senior officials and analysts from the US, Britain and Germany. The forum is designed to deepen mutual understanding beyond the strategic and security

in 1999 is a cardinal policy

issues that preoccupy most such gatherings.

Most revealing was the contrast between the forum's opening paper and presenta-tions and the subsequent discussion. "The problem of reconciling burgeoning welfare budgets with growing public deficits and dwindling workforces is large and cannot be ignored," noted the paper. From the initial statements it appeared that three things were agreed: welfare spending was musustainable given demographic projections: a broad bipartisan consensus existed in each country about the need for change and its direction; and initiatives in one country could easily be translated to

Can the wel- The implications of demo- income-related figure for graphic projections showing barely two workers for every retired person by 2040 were hothy disputed. A German MP from the opposition Social Democrats argued that insurance contributions for healthcare in Germany need rise only marginally over the next 15 years to cover the ageing population. After 2010 demographic change would impose signifi-cant new burdens, "but it would be wrong to sacrifice our socially oriented state through premature and possi-bly misplaced alarmism", he

> Support came from the unlikely source of a British Tory minister who lauded the virtues of the UK's taxfinanced comprehensive health service, noting canstically that alarmist projections about "unsustainable" growth in health spending had appeared every decade since its establishment in 1948.

It was soon clear that the delegates considered the predicament of each of their countries to be largely distinct from the others. British and American delegates gasped as the details of Germany's generous insurance benefits were explained German unemployment insurance provides claimants with about 80 per cent of their previous income for one year and a somewhat lesser

'It would be wrong

to sacrifice Germany's socially oriented state through premature and possibly misplaced alarmism about

demography'

another two years. Then comes basic assistance without time limit, set at DM2.700 (£1.139) a month for a couple with two children. This is far in excess of the equivalent benefits available in the UK, let alone the US, yet German MPs insisted that only marginal adjustments were needed or politically possible.

To the non-Germans, the sur-

prise was that German unemployment - at 9 per cent it is nearly two-thirds higher than the US rate and a little above the UK's - was not higher still. This provoked discussion of the importance of wider social forces in shaping welfare states, notably the effect of Germany's superior education system and work ethic in limiting abuse of what one US Congressman dubbed "the biggest scrounger's charter in history". It was the turn of the Ger-

mans to be aghast as US delegates explained the various proposals for "workfare" work for social security benefits - being devised by US states for single parents. One US analyst predicted a "race for the bottom" in benefit levels as the federal government sought to withdraw from unemployment support.

"This is going back to the Middle Ages - beggary on the one hand and private charity on the other," a German MP declared. The British were divided. One Tory MP thought workfare was "right in principle and inevitable in practice", but the UK Treasury raised a

host of practical objections. It was not, however, a simple case of European resistance to American laisser faire. Both the British and Germans were surprised that relatively generous federal retirement pensions should be sacrosanct in the US. while other benefit levels are low and vulnerable and a national healthcare scheme seems an impossible dream. "It's pure politics - the elderly are untouchable," said a Con-

A dominant theme was

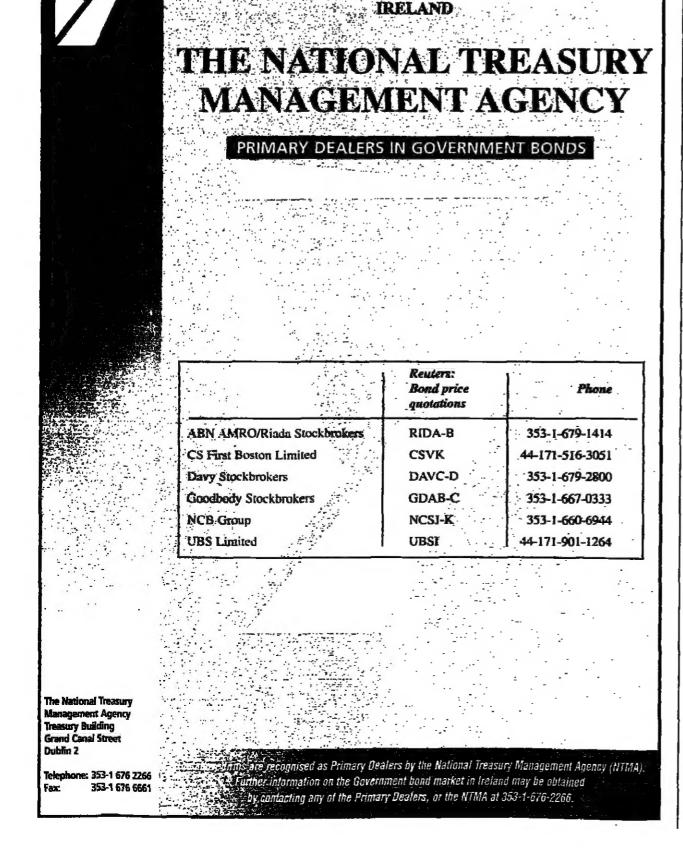
realm of the possible in the three countries. A German analyst declared workfare morally requenant and impossible to implement given cultural memories of forced labour and

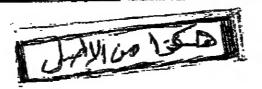
slavery. A British minister responded by questioning German mili-tary conscription, which he described as an "impossible concept" in the UK. Yet in Germany it is critical to providing social services given the high proportion of young men opting for civilian service as an alternative.

Healthcare was the one significant area where delegates believed it possible to copy policies across borders. There were sharp exchanges between US delegates about the fate of the 44m Americans without adequate health insurance cover and the profits of the Health Mainten tions responsible for providing healthcare to many Americans. So too between British delegates about the need for rationing within the tax-financed National Health Service as demand outstripped the readiness of governments to supply

The German health system anaged competition betwe insurance funds providing comprehensive health cover. with employees obliged to join siasm. One UK Tory MP sew it as an "excellent means of eliminating rationing by passing the cost from the taxpayer to the private sector without giving up central control".

But it was the differences, not the similarities, between the three welfare systems that made the strongest impression. When a US Republican Con-gressman claimed that welfare was "basically a matter of poor relief - a struggle between our hearts and our pocketbooks which depends on our revenues", the extremes of American individualism and German solidarity were fully exposed. The British, typically, came through the middle.





Number One Southwark Bridge, London SEI 9HL Tel: +44 171-873 3000 Telex: 922186 Fax: +44 171-407 5700 Wednesday July 3 1996

Keeping state aids in check

Yesterday's demand by Unice, the European employers' organisa-Brussels to retreat from its "One tion, for tougher enforcement of EU rules on state aid to industry state aid to airlines. is to be applauded. The initiative not only focuses attention on a real economic problem but also suggests an encouraging shift in business opinion. In the past, few companies were ready to condemn government hand-outs from which they stood to benefit. Now, it seems, more are disposed to view such largesse as an insidious threat to fair competition.

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The change of mood is particu-larly timely, when growth in many European economies is fal-tering. It is at this point in the cycle that European industry's walking wounded rattle their beg-ging bowls most loudly. Despite Unice's defence of virtue, little suggests that these petitioners will be less vocal this time or their national growspanents less accessed. national governments less amena-ble to special pleading by influential vested interests.

In theory, the European Cou-mission has impressive powers to block subsidies which jeopardise competition. In practice, its authority is much less clear-cut. The fact that its disciplines fall on the governments which give subsidies, rather than on the companies which receive them, means that crude politics often prevail over the rule of law. Not only is the commission heavily lobbled by national capitals; many of its members habitually retrain from opposing subsidies when producers in their own countries are seeking similar favours. Such

chance, last chance" doctrine on

For those reasons, Unice's call for an EU regulation setting out or an EU regulation secting on clearer rules and procedures for vetting state and looks politically unrealistic. Proposals for stricter judicial restraints on governments' pursuit of national interest stand to win little support in the stand to win little support in the Council of Ministers. Even mem-ber states which want an indepen-dent EU cartel office to enforce competition policy would keep state aid out of its clutches.

Unice is on more promising ground in urging greater transpar-ency in the handling of state aid and a more active role for business in ensuring that disciplines are enforced effectively. Brussels will be less inclined to bend the rules if its deliberations — and the political pressures on it — are exposed to fuller public scrutiny. Its resolve should be further stiffaned by the increasing readiness of companies to challenge contro-versial decisions in the European Court of Justice.

in time, privatisation should reduce the incentive for govern-ments to subsidise, while budget-ary constraints should limit their means. But so long as they remain tempted to ball out favoured companies with taxpayers' money, more openness is needed to ensure that EU rules are enforced fairly. Meanwhile, aggrieved competitors should be ready to cry foul, kick up a stink and call for their

Oil's well

The recent development of the UK's North Sea of has been a remarkable success story. The industry's ability to cut costs, increase production and add reserves has been much greater than was expected only a decade ago. Operators are making money from oil in hitherto inaccessible reservoirs, despite the fact that crude prices (adjusted for infla-tion) are less than a third what they were in the early 1980s.

It was expected then that North. Sea of production would decline steeply after the early 1990s. But new techniques for almost borizontal drilling, much better ways of interpreting seismic data, and cheaper platforms have all com-bined to improve the outlook. It is now expected that production will not decline until near the end of the century and then only slowly.

Yet the North Sea oil industry confronts formidable problems. These include developing ever bet-ter technologies for the wild seas west of the Shetlands and finding ways to extract every last berrel from familiar territory in the North Sea. It is this last problem which Mr

Tim Eggar, the UK energy minis-ter, is attempting to confront with his proposal this week to intro-duce competitive bidding into the

next licensing round. He intends to auction some 20 to 30 exploration blocks in "mature" sectors to try to speed up the rate of exploitation. Although the UK

government has used competitive

were allocated by a discretionary process. Under this system the government would evaluate oil ticular block of territory mainly in terms of the number of exploratory wells that each company asid it would drill.

The discretionary system gave the government a great deal of power over the offshore operators, and may have been justified in the early years. But the process was slow, cumbersome and opaque. North Sea operators have been forming much more flexible commercial relationships in recent years to exploit difficult fields at minimum cost.

A simple auction of new blocks is the best way to reinforce this process. To achieve this, reserve prices must be set low, so that smaller companies may have the chance of picking up less favoured blocks; the government should also consider different types of bid, for example an offer to pay for the licence out of profits rather than up front. This would mirror the kinds of arrangement that oil companies have been making with contractors.

There is, moreover, a strong argument for extending the auction to the whole of the next licensing round rather than just to marginal blocks. In both cases the objective must be to provide incentives to maintain the pace of discovery rather than feeding the Treasury with gobbets of cash.

COMMENT & ANALYSIS

Power brokers at the bedside

Boris Yeltsin is expected to win Russia's presidential election but the struggle to succeed him is already on the agenda, says Chrystia Freeland

1991, he assumed the position of the powerless head of a Soviet province. Only months later, the Soviet empire collapsed in disarray, and the Russian leader became, by default, the ruler of the Kremin.

Today, President Yeltsin is facing Russian voters in the first genuinely democratic election of a national leader in the country's history. And yet the celebratory mood which should have greeted this extraordinary achievement has been soured by the visit of an unwelcome spectre from the author-

itarian Soviet past.

Mr Yehsin has degenerated over the past week into a sickly and secluded figure, uncomfortably reminiscent of the geriatric Communis party Politburo bosses who ruled the Soviet Union in the bad old days. The man whom millions of Russians had hoped to re-elect as the embodiment of the country's democratic future has been skulk-ing in his dacha outside Moscow, allegedly suffering from a sore

for Mr Gennady Zyuganov, the Communist challenger, the president's unexpected regression from an energetically flesh-pressing, street-dancing campaigner into the world's most powerful recluse has been a political windfall. The Russian isader's ill health has galvanised the Communist transmister of ised the Communist team into a frenzy of eleventh-hour activity as the comrades sense that it may still be possible to seize victory from the laws of defeat.

After months of soporific campaigning which even ardent supposters were reduced to praising as "calm" and "solid", the Communists have suddenly learned how to produce snappy sound bites.

"We haven't seen him lair Yelt-

sin] for several days and today they showed us a painted mummy as if they'd just got it from the mauso-leum," said Mr Stantslav Govoru-khin, a pro-Communist film director after the Russian president gave a stumbling performance on television on Monday. "They are suggest-ing we vote for a living corpse."

It was a great line which, in a more mature democracy, would have done further damage to the reputation of a 85-year-old leader who has already suffered two mild heart attacks in 12 months. Yet despite the president's temporary disappearance, the consensus in Moscow remains that he will be reelected. Even one of the top campaign strategists for Mr Zyuganov admitted yesterday that his candidate was likely to lose.

On June 16, Mr Yeltsin emerged from the first round of this twostage presidential poll with a three percentage point lead over his main challenger. Since then, he has improved his chances for the run-off by inveigling General Alexander Lebed, former darling of the Red Army and hero of Afghanistan, who came third in the poll, to join his regime. He also seems certain to win over a majority of the supporters of Mr Grigory Yavlinsky, the liberal candidate who finished fourth. So the only threat to his chances would appear to be his physical frailty.

Muscovite pundits and financiers,

both foreign and domestic, are still betting on Mr Yeltsin, not least because the Kremlin's stranglehold over the nation's media has meant that most Russians are only dimly aware of the president's ill health. But while the compliant press could help keep the Communists from coming to power in today's poll,

even the most supine journalists he seemed poised to become the cannot protect Russia's ruling elite from the worrying realisation that Mr Yeltsin might not survive until the end of a second four-year term. Thus, even before a single ballot has been cast this morning, Kremfrom US President Bill Clinton.

lin insiders have begun planning how to manage Russia's next suc-cession struggle, the fight for power set off if Mr Yeltsin dies or is incapacitated after winning re-election. For a country, and a political alita, whose overwhelming desire is for stability, the prospect of facing another divisive contest for the Kremlin so soon is deeply unwel-come. Worse still, without the char-ismatic and unifying presence which Mr Yeltsin supplied in his more vigorous moments during this spring's election campaign, the present government could risk being defeated in a rematch against

the battle-hardened Communists. Many Kremlin power-brokers also harbour growing suspicions of Mr Lebed, the new head of the Security Council, who in less than two weeks has undergone a rapid political metamorphosis from outsider, to crown prince, and now to a suspect cuckoo in the nest.

Mr Yeltsin welcomed him into the corridors of power last month in an effort to woo the 11m voters who backed him in the first round of the elections. But within days the maverick officer managed to alienate the authoritarian faction in the Kremlin by conniving in the dismissal of its leaders. Then, just as

democrats' new darling, Mr Lebed changed tack and horrified the lib-eral camp in the government with a series of nationalist comments so harsh as to provoke a public rebuke

Mr Lebed's unpredictability and the fear that the Communists might prove unbeatable if new elections suggesting this week he would be were to be held within the next six willing to serve in a Yeltsin cabinet. months has created a strange paradox for Mr Yeltsin's entourage.

n the one hand, the Kremlin team is desperate to beat Mr Zyuganov. To that end it has launched a vociferously anti-Communist campaign, featuring burning churches, footage of Stalinist labour camps and warnings of a return to the chronic food shortages of the Soviet era.

But at the same time, Mr Yeltsin's allies have begun to prepare public opinion for a coalition govarnment with the Communists after today's vote. Mr Victor Chernomyrdin, the prime minister, said this week that he would welcome oppo-sition politicians into his cabinet and that he is "certain" they will who recently told Russians of his genetic hatred of communism, changed his mind on Sunday and called for a grand coalition.

The Communists seem equally prepared to abandon their fierce rhetoric and team up with their opponents after what they clearly

voting has been completed. Mr Zyu-ganov said last week that if elected he would form a broad coalition government and might even ask Mr Chernomyrdin to stay on as premier. Mr Aman Tuliev, one of the most prominent politicians in the Communist camp, went further,

All this has persuaded many Kremlin watchers that a coalition government is the most likely outcome of an election which Russian politicians - and many western observers - have sought to portray as a violent clash between two incompatible ideologies.

"I am convinced that if Yeltsin wins, the ruling elites will bring the Communists into their government," said a western diplomat in Moscow. "It's the only way for them to avoid another messy succession struggle if Yeltsin doesn't last."

The talk of coalition-building is a reminder that western-style democ-racy is still a fragile and alien seedling in the soil of Russia's collectivist and authoritarian traditions. Since medieval times. Russia has been ruled from above by a class which allowed political conflicts to emerge only within the confines of a narrow elite. Any disputes which emerged in the rest of society were

ruthlessly suppressed. Even the democratic breakthrough represented by today's ballot is not free from such traditions, as shown by the behaviour of the

regard as the messy formality of country's media, whose diversity one of the great achievements of the post-Soviet revolution. Over the past few months Russia's most talented liberal journalists have leapt on to the government bandwagon, writing shamelessly pro-Yeltsin stories and cheerfully passing off Kremlin black propaganda as inside "scoops" about the Communists.

Millions of the Russians casting their votes today have been given no information to suggest that one of the two candidates on their ballot papers is in such delicate health that he has barely managed to stumble through a single, tightly edited television appearance in the past week. Their choice may be free, but it will be ill-informed, and that will be the fault of a Russian liberal elite that prides itself on its "democratic" convictions.

The media's willingness to con-ceal Mr Yeltsin's health problems in the name of freedom and democracy is a striking example of the curious hybrid of western ideals and Soviet habits which characterises postcommunist Russia.

Mr Yeltsin is in many ways an apt leader for a nation still in a political limbo between its painful past and its dreams of a happier future. He may look disturbingly like former Soviet leader Leonid Brezhnev in the sclerotic final years of his reign. But, for the first time ever, the man who enjoys supreme power in the Kremlin is submitting to the verdict of the ballot box.

Communists still

Only a year ago Vietnam was the darling of the international investment community. It had resumed relations with the US, stood on the verge of joining the Association of Southeast Asian Nations and embarked on a path of rapid economic growth which promised to make it the next Asian miracle.

This week's Vietnamese Communist party congress was a harsh reminder of how misplaced that optimism was. Vietnam's economy is still growing at nearly 10 per cent a year, but its living standards are only around one tenth of those of Thailand and it has a worrying balance of payments deficit. Instead of pushing further down the road of economic reform, the congress emphasised the need for a strong state sector.

The moral is that, despite the remarkable rollback of communism around the globe over the last decade, many societies change slowly. Vietnam may be a country of 74m willing consumers, but obstacles to development are many. It is not just poor communications and infrastructure: above all, the party lacks a leadership able to promote reform.

its caution is understandable. Its caution is understandard Vietnam's communists remain alarmed by the social and eco-nomic disintegration which afflicted the former Soviet Union as party authority waned. Hanoi's main pre-occupation is to retain control. Too much haste in economic reform would dilute that and risk political divisions

between the enterpreneurial south and the more conservative north. The ageing leadership, which has retained power, is also deeply suspicious of younger generations. The next generation down grew up during the war with the US and is Soviet-trained. It will be a long time before the technocrats are ready to take over.

Vietnam's new conservatism reflects a lack of self-confidence in the party. This was no doubt reinforced by an unprecedented objection from the congress floor in response to the old guard's effort to concentrate power in the hands of a committee of five members of the politburo.

In this climate it would be foolish to expect too much of new investment rules supposedly designed to encourage projects with technology input and export potential.

Vietnam's cadres now apparently think safety lies in keeping foreigners at bay, but this is not a sustainable approach. Expectations have been raised, and Vietnam will be able to deliver a lasting increase in living standards only if it opens up its markets reduces the role of the state and learns to eschew reliance on the party patronage that pervades almost every government and

commercial decision. Were it able to do that. Vietnam really might become an Asian mirreany might become an Asian mir-acle. Unfortunately, its congress is a reminder that in real life, miracles are rare.

OBSERVER Prodi gets hoodwinked

When battle lines are drawn in Italy it's usually between north and south, or Catholics and

communists - rarely explicitly between rich and poor. Hence Italians' interest in comments at the weekend by Romano Prodiprime minister of the new centre left government. Prodi-appeared to compare his envernment's economic policy to that of Robin Hood - in other words, taking from the rich to give to the poor. The idea of the chubby Prodi

kitted out in green tights and armed with a bow and arrow is only slightly more absurd than the pictures of him in full cycling kit which regularly appear in the Italian press, but his simile nevertheless struck a chord. The theme was adopted by Gismui. Agnelli, honorary chairman of Fiat and subject of last month's admiring cover story in Pannama, Silvio Berhisconi's weekly news magazine, which asked "What use are the rich?" Good question. Berlusconi, it turns out, is

almost twice as rich as Agnelli - at any rate, according to Rirbes magazine's latest ranking of the world's wealthy — and is about to get even richer. The former Italian premier stands to receive just over L1.000hn from this week's intation of shares in Mediaset, his media

The state of the s

empire. But Agnelli got his own back yesterday. When asked to comment on the Forbes ranking, ha mischievously replied: "Sounds like it might interest Robin Hood."

Waste disposals ■ A friendship that began eight

years ago on a Florida beach has borne succulent fruit for Michael Ashcroft and Michael de Groote. Soon after meeting they forged a deal to turn Laidlaw, the Ontario-based waste and transport. operator founded by De Groote, into the biggest single shareholder in ADT, Ashcroft's Bermuda-based security services and car auction

company.

Belgian-born De Groote quickly sold his Laidlaw stake and pocketed about half a billion dollars. He said he was retiring to Bermuda, but resurfaced at the head of Republic Industries, a fledgling waste management outfit. Republic was fired up last '-August, when De Groote handed the reins to another friend and self-made entrepreneur, Wayne Huizenga, Under Huizenga, Republic has aggressively expanded And as Republic's

hand at this week's announcement that Republic has offered to buy. ADT for \$50n. The big loser in De Groote's deals has been the Canadian company he led for more than 30 years. Soon after he left, Laidlaw's

vice chairman De Groote was on

management became embroiled in an actimonious corporate governance dispute with Ashcroft. That unhappy episode culminated in Laidlaw's selling its 24 per cent stake in ADT earlier this year for \$14.40 a share, Republic's offer values ADT at a cool \$25.

All yin, no yang Two steps forward, one pace back. The Chinese foreign ministry has decided that holding bilingual press conferences (in English and Chinese) is a mark of unseemly deference to old colornal ways. From September, all will take place

solely in Chinese.
This will certainly come as a shock to the many foreign hacks whose grasp of Chinese is not profound. Instead of thinking the foreign ministry merely inscrutable they will now find it's also become incomprehensible.

Safra sighting ■ Edmond Safra, one of the

world's better known, least seen bankers, has placed a hefty bet on Mònte Cario. His bank, Safra Republic Holdings, has moved into Aristotle Onassis's old offices on Monaco's Avenue d'Ostende, next door to the Hotel Hermitage. Old Moote Carlo hands will remember the address. It's where the late Greek shipping tycom used to canoodle with Maria

Callas. These days, recession-hit Monte Carlo lacks its former buzz; all the more intriguing that Safra, 64, is betting on its becoming a profitable financial centre.

On Sunday night, he made something of a splash, taking over the Monte Carlo opera house and hiring an unusual diva, Baroness Thatcher, as star performer. She had nothing new to say but the audience - whose net worth probably exceeded Monaco's gross national produuct - lapped it up.

Nor is his new bank a brass plate affair; it boasts a decent-sized dealing room and a staff of about 50. Safra says banks need to get closer to their wealthy clients and not wait for them to fly to Geneva or Zurich. Hardly a revolutionary idea, but then nothing in banking ever is. The only difference with Safra is that he likes to bet on outsiders such as Guernsey, Gibraltar and Lugano. Based on past performance, Monte Carlo should come up trumps.

Bang bang Lebed ■ Alexander Lebed wants extra powers to deal with Russia's security problems. He says that in his war against crime "we'll shoot people, but reasonably, with minimal losses for the law enforcement bodies, and only those people who refuse to be persuaded". Sounds like the good old days are just around the

Ginancial Times

100 years ago

Mr. Rhodes's Resignation Bulaweyo:- At a mass meeting held here today to protest against the action of the British South Africa Company in accelerating Mr. Rhodes's resignation, the following resolution was passed: "This meeting protests upon the grounds: (1) that the past services of Mr. Rhodes should have ensured his retention of office: (2) that his withdrawal seriously prejudices the Company in the eyes of the people as well as the best interests of British investors; and (3) that the more rapid development of the country that the colonists had the right to expect will be retarded in the event of Mr. Rhodes's withdrawal from the Colony.

50 years ago

Rail Holders' Referendum Every post yesterday brought large numbers of applications for membership to the British Railway Stockholders Union and the L.N.E.R. Stockholders Association, following the appeals of the Boards of the four main-line railways for a mandate from the stockholders for their

anti-nationalisation policy.
The union secretary said the two days' returns suggest the widest realisation of the dangers of nationalisation not only to stockholders themselves but also to industry and the nation.

FINANCIAL TIMES

Wednesday July 3 1996



Japan allocates \$155bn for research spending

The Japanese government yesterday adopted a "master plan" to allocate Y17,000bn (\$155hn) to science and technology over the next five years, a substantial increase in state spending on basic research.

The scheme aims to overcome the reputation of the Japanese as great developers of other people's ideas but poor innovators. The government's science and technology agency believes the country's weakness in research is a serious competitive handicap. "The nation's technology is currently in its most severe condition in recent years," its report

The agency says the Japanese R&D structure's main deficiency is the domination of public research laboratories by senior lifetime employees. The country's respect for seniority still takes precedence over promoting the

hest young scientists, it says. It proposes an overhaul of the research career system, to

would have been \$1.2bn in 1995. CS said the changes had been discussed since the end of last

year and were not related to the failed UBS merger.

Mr Hans-Ulrich Doerig, vice chairman of Credit Suisse,

becomes chief executive of Credit

Suisse First Boston in an appar-

ent attempt by the Swiss to

tighten their grip on their vols-

tile international investment

banking subsidiaries. Mr Allen

Wheat, president and chief oper-

ating officer of CS First Boston,

becomes chief operating officer.

Mr John Hennessy, chairman of CS First Boston, is retiring from

Digital jobs

"intact". "We expect to remain

profitable," he said. "We will be

Mr Palmer said Mr Eurico Pes-

atori, general manager of Digi-

tal's Computer Systems Division

and a vice president of Digital.

had resigned with immediate

effect. Digital's core businesses,

which include high performance

computers and its services

operations, remained strong with

In Europe, Digital's sales fall

about \$150m short of expecta-

tions in the fourth quarter, Mr

Palmer said. Digital's European

operations would also be cutting

jobs, mostly in administration

and support areas. Of the 7,000

job losses over the next year,

about half are expected to be in

Europe. Digital now has a world-

about half its peak in the 1980s.

Europe today

easterlies are expected in northern regions.

will have patchy cloud with showers. South-

and a fresh breeze will blow along the east

ociated with low pressure in Scotland

A weak ridge of high pressure will bring dry

double-digit sales growth.

Continued from Page 1

active management

to allow state-employed researchers to take second jobs in the private sector, a common prac-

"Japanese society is very con-servative and this is especially true in R&D. It is very important to change and to improve researchers' conditions," said Mr Shizuo Hoshiba, a senior agency official and the plan's deputy

The plan would lift statefunded research spending to US and European levels of about 1 per cent of gross domestic prod-uct. But officials admit actual spending might fall short of the target because the finance ministry, keen to curb the budget deficit, retains control over the annual research budget.

plan would represent a 5.8 per cent increase in research spending compared with the past five years. It proposes that spending should rise by just over 12 per cent a year until 2000, to reach be double the level in 1992, when

Mr Hoshiba said spending would focus on training, co-operation between research projects and the purchase of equipment and computers for the government's research laborato-

Currently, 80 per cent of Japan's \$130bn-a-year science and technology spending is carried out by the private sector - with nearly all devoted to applied, rather than basic research. An outline of the plan was adopted by the cabinet four years

ago, and has since been the subject of a fierce debate with the finance ministry. The ministry resisted setting a numerical target for research spending without a clear idea of what the projects would entail in the event, the finance ministry's assent was won by a compromise, in which it has the right to review research spending annually in the light of the government's

"We have been very careful not

to deal with confiscated US prop-

The 50-50 hotels joint venture

was constituted by Cuba's Gran Caribe and one of Mr Berukoff's

companies, Wilton Properties, which is registered in the British Virgin Islands. The Canadian-

Cuban venture, called Vancuba

Holding, plans to build 4,200

hotel rooms over the next decade

"I see it as a long-term invest-

ment," Mr Berukoff said, adding

ket for tourism. He said the proj-

ected rate of return on the invest-

ment was "more than adequate

One of the 11 planned hotels

would be built in Hayana and

two on Cuba's Isle of Youth,

where one of Mr Berukoff's com-

panies, Miramar Mining Corpora-

tion, already has an advanced

gold and silver project. Three more hotels were planned on the

Cuban offshore tourist island,

But the bulk of the project.

comprising five hotels, would

concentrate on the development

of a north coast beach site at

Jibacoa, some 50km (30 miles)

east of Havana. This would include a golf course, ranch.

marina and cruise ship facilities.

Cayo Largo del Sur.

M. Cuba as a

but declined to give details

distributed in 11 hotels.

erties," he said.

Thai bank

Mr Vijit Supinit, the governor of Thailand's central bank, resigned lic criticism of his role in a series of financial scandals over the

His resignation was welcomed by the domestic and foreign financial communities, which had lost faith in his ability to maintain the Bank of Thailand's much-admired independence. Mr Vijit's departure was widely expected and a successor is expected to be amounced early

Mr Vijit, who had spent his entire career at the central bank and had been governor for the past five years, was regarded as a forceful economic manager. But recently his political motives and professional integrity came under

Mr Ekamol, who was also dep uty governor of the central bank, was seen as a potential rival to

His loss of credibility also rentive monetary policy.

Last year, Mr Vijit had success

lower interest rates but he appeared to relent over the past week as his political strength

ers Bank, two of the country's largest commercial banks, greeted Mr Vlitt's resignation with announcements that they would immediately cut some

Mr Vifit allowed the bank to give unsecured loans to prominent politicians to buy land that was then overvalued by as much as 10 times and then used as security for new loans from the

Commerce executives or employ-

ment. But this was unlikely, ana-

Chief falls from grace, Page 5

Credit Suisse | Canadian group in Continued from Page 1 \$400m Cuban deal banking business after J.P.Morgen of the US. Its net income

to build hotel chain

undertaking a \$400m joint venture to build 11 tourist hotels in Cuba in the island's biggest foreign investment deal since the US introduced measures in March to discourage foreign busi-

ness there. Mr Wally Berukoff, who runs a group of mining, property and other companies and already has investments in Cuba, signed the deal with Cuba's state hotel cor-

poration Gran Caribe. The 10-year project is the big-gest planned joint venture investment announced so far in Cuba's growing tourism sector. It will also be the largest investment in Cuban tourism by Canada, which, along with Spain and Mexico, is a significant investor ment in Cube has been heavily concentrated on although at least two Canadian

companies manage Cuban hotels. The announcement was a further signal that some determined foreign investors do not intend to be put off by Washington's Helms-Burton law. The US legislation threatens penalties against foreign companies which invest in property expropriated from Americans in Cuba following the

Canada's government last month proposed retaliatory legislation which would allow Canadians to countersue in Canadian courts to recover any damages which might be awarded against them in US courts under the

If the funding target is met, the Y4,300bn annually. That would Japan throws money at research

Vancouver, has interests in two advanced gold projects in Cuba and has also invested in a Cuban-Canadian biotechnology joint A Canadian entrepreneur is venture. He said his lawyers had checked the proposed hotel sites in Cuba, which were subject to no known US claims.

1959 revolution.

governor quits after financial scandals

By Ted Bardacka in Bangkok

yesterday, bowing to sharp pub-

He played a significant role in the sacking of Mr Ekamol Khiri-wat as head of the Securities and

dered him impotent in the face of increasing political pressure on the bank to abandon its restric-

fully resisted calls from prime minister Banhern Silps-ercha to

Bengkok Bank and Thai Farm-

Mr Vijit was further damag when it was revealed that he had soft-peddled months of warnings that a medium-sized commercial bank, the Bangkok Bank of Commerce, was engaged in dubious lending practices.

The government was forced to take over the bank last month in

ees have been indicted on charges of fraud. Analysts said while Mr Viiit's resignation was a positive step in stemming the decline of the bank's credibility, its continued independence could be ensured only if the government chose a tough and strong-willed replace-

THE LEX COLUMN

Credit's crunch

Credit Suisse, the oldest of Switzerland's three big banks, has long been due for a facelift. April's embarrassing failure to bounce higger rival UBS into a merger seems to have finally galvanised its management

into action. Yesterday's rationalisation sweeps away a tortuous group structure under which stand-alone businesses overlapped and even competed with each other. The new organisation places greater emphasis on asset manplaces greater engineers on asset man-agement and private banking - rela-tively stable and profitable areas - by assigning them equal divisional status with retail and investment banking. There is nothing innovative in this: SBC put an almost identical structure in place after the takeover of SG Warburg. But Credit Suisse has also found itself a highly-rated new chief execu-tive in Mr Lukas Mühlemann, a former management consultant who has won plandits for restructuring insur-

ance group Swiss Re.
Mr Mühlemann has plenty to get his teeth into. Due to 1993's disastrous acquisition of Volksbank, Credit Suisse is losing money in Swiss retail banking even though it is market leader with a 30 per cent share. Yesterday's job cuis and branch closures, which should yield the bulk of promised savings totalling Sfr700m (\$560m,), are the first serious attempts to cut costs at home.

The real challenge, though, is to sort out Credit Suisse First Boston, the investment banking arm. Although CSFB should be a very valuable asset as the only European bank with a real footbold on Wall Street, its returns have been mediocre. This reorganisetion beefs up CSFB by bringing the profitable derivatives unit under its segis and uniting commercial and investment banking, a move which Mr Rainer Gut, chairman, has always fought against. Whether it will help CSFB to match rivals like Goldman Sachs or Morgan Stanley for profitabil-ity is much more doubtful.

Digital Equipment

Digital Equipment is back to its bad old ways. Barely a year after the computer group had apparently turned the corner, it has unveiled another huge restructuring charge. Mr Robert Palmer, chairman and chief executive. may point out that the restructuring charge at \$475m and the associated 7,000 job cuts are smaller than some other hits Digital has taken in recent years. But it is still a substantial blow to the credibility of both the company

The root cause of Digital's problems

.80

is fairly basic: It badly forecast nand for personal computers at the end of last year with the result that too many of its PCs were stuck with distributors when sales and prices fell earlier this year. Tougher competition in the PC business is, of course, some-thing that all manufacturers have had to face. But Digital has been particularly poor at responding to the chal-lenges. That probably reflects the fact that it has never been adept at making

money in commodity businesses. Looking forward, Digital's decision to cut further its presence in PCs seems sensible. Its other busines notably providing computer services and making "servers", powerful com-puters that sit at the heart of networks - are more profitable. Moreover, Digital has competitive advantages in these areas as a result of its strategic alliance with Microsoft and Alpha, its fast microprocessor. But even these markets are becoming increasingly competitive. Unless Digital rapidly demonstrates that it is back on the recovery track, the few advantages it still possesses will be eroded.

Mastercard

Mastercard certainly knows how to pick a fight. Just a matter of weeks after the European competition commissioner warned fellow credit card company Visa against stopping its member banks from issuing rival cards in Europe, Mastercard has decided to try the same trick in the US. Of course, it has a simple defence. Visa has already quietly got away with such a practice in the US, on the hasis that it it is rightfully defending its brand. However, since American Express or other card issuers have to build their own brands and computer

and service networks, there is little strength in the argument that the would be cashing in on Visa Master-card's investment. And it will be inter-esting to see whether the US government is prepared to be painted as a less vigorous anti-trust policemat

stanley

sis earning*

than Europe. American Express should feet immensely flattered. The moves by its competitors must be interpreted as response to its new strategy of trying to expand its distribution by using a network of banks - many thousands of which are members of either Vise Mastercard, Visa, however, will probably be less impressed. Mastercard's latest move must inevitably encourage a degree of scrutiny a Visa's own US arrangements, which is unlikely to be all that welcome.

Orange has yet to face a real squeeze. But some of the enthus squeeze. But some of the enthusiastic forecasts that accompanied the celliplar operator's March flotation may have to be scaled back. For the second quarter running, net growth in customers has fallen. The decline may not be large: 85,000 customers were added in the three months to end-Juna, don't from 108,000 in the previous quarter and 115,000 in October-December less. and 115,000 in October-December les year. But the strong momentum that Orange had developed in the run-up in its flotation has evaporated.

Two things have happened. First overall growth of the UK cellular mass ket has slowed: there were fewer than 300,000 net new customers in the last quarter - a drop of nearly 40 per cent compared with the same period of the previous year. There is, as yet, no con-vincing explanation for this. But if the slowdown persists, the industry will either have to cut prices to boost sales or to live with less rapid growth than once seemed likely. Either way Orange would suffer more than Vods fone, its main quoted rival: not only is Orange, which is still loss-making effectively a geared play on the Up cellular market; Vodafone's fast-grow-ing international business provides a

The second development has been a slight fall in Orange's share of net new customers - from about 83 per cent in the first quarter to 29 per cent in the second quarter. The drop should not have been surprising; after all, Vode fone and Cellnet have only recently brought their tariffs down to cut Orange's pricing advantage and stepped up their marketing cam-paigns. Even after the recent fall, the Orange share price could be pected

tion a feet radium

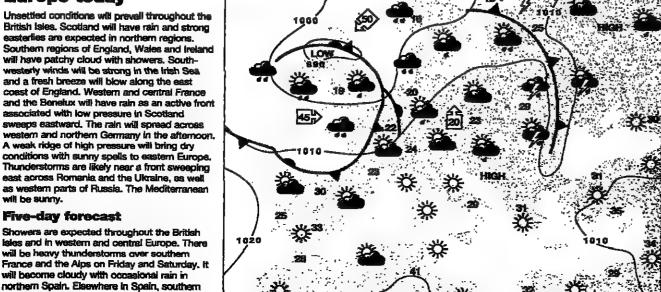
a new high flier.

Indonesia's state-owned IPTN celebrated its 20th anniversary with the debut at Indonesia Air Show '96 of the twin-engined N250, scheduled to enter commercial service next year.

The N250 is the world's only fly-by-wire regional turbo-prop and, at 330 knots, one of the fastest. Its range is 800 miles and strenched versions with up to 72 seats are already under development. Key equipment includes landing gear supplied by Messier-Dowty (TI Group's joint venture with SNECMA) and Dowty propellers and hydraulics - a package worth over US\$200 million across the expected life of the programme. With our help, the N250 is a real high flier. Dowty is one of Ti Group's three specialised engineering businesses, the others being Bundy and John Crane. Each one is a technological and market leader in its field. Together, their specialist skills enable Π Group to get the critical answers right for its customers. Worldwide.



For further information about the TI Group, contact the Department of Public Affairs, TI Group plc, Lumbourn Court, Abingdon, Oxon OR14 1UH, England



Showers are expected throughout the British isles and in western and central Europe. There will be heavy thunderstorms over southern France and the Aips on Friday and Saturday. It will become cloudy with occasional rain in northern Spain. Elsewhere in Spain, southern Portugal, Italy, Greece and Turkey it will continue sunny and hot.

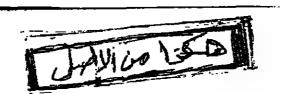
Five-day forecast

will be sunny.

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"Japan, Inc. has no magic management system. There is simply no substitute for a conscientious work force." **KROTHS**

FINANCIAL TIMES

COMPANIES & MARKETS

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Wednesday July 3 1996

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Morgan Stanley boosts earnings

The continuing strength of financial markets helped Morgan Stanley, the investment bank, to nearly double earnings per share in its second quarter to May 31. Fully diluted earnings per share for the quarter were \$1.75, up from 91 cents in the same period of 1985, and from \$1.57 in the first quarter.

Mr. Diffic Duff, chief financial officer, said "the My Philip Duff, chief financial officer, said "the parating environment has been about as ideal as

Olivetti may name new chief tomorrow Directors of Olivetti, the Italian computer group, could name a replacement for Mr Corrado Passera. the outgoing chief executive, as early as tomorrow following Banco Ambrosiano Veneto's announcement yesterday that Mr Passera will be the bank's new chief executive. The front-runner to replace Mr Passera is Mr Francesco Caio, chief executive of Omnitel Pronto Italia, the mobile phone company in which Olivetti has a 41 per cent stake. Page 14

Gloomy start for Stena Line Stena Line, the Swedish ferry company, has had a gloomy start to the summer season. Stena, the world's largest ferry operator, was forced to issue a profits warning last month because of the effects of competition on the English channel from Eurotunnel, and delays in introducing its High-speed See Service (HSS) vessels on the Irish See. Page 14

NYSE targets overseas stock

The New York Stock Exchange has underlined its global ambitions by recruiting Mr Georges Ugeux to the new post of group executive vice-president, international. However the exchange has dropped plans to begin trading in non-US companies' shares in their home currencies. The intention had been to start a pilot scheme this autumn but the plan has been put off, with no firm date set for a launch.

John Fairfax, Australia's leading newspaper ynblisher in which Mr Courad Black, the Canadian thedia tycoon, holds the largest single stake, announced it was appointing Mr Robert Muscat as chief executive. Mr Muscat is currently chief operating officer at News Limited, the Australian arm of News Corporation, the media and entertainment group headed by Mr Rupert Murdoch. Page 16

Cookson Group, the UK industrial materials company, strengthened its presence in electronic com-ponents by acquiring Camelot Systems, the US dis-penser manufacturer, for up to \$100m. The UK group said the acquisition would make it the world's only integrated manufacturer of electronic materials, laminates and circuit board equipment for the semiconductor industry, Page 17

Dutch give zinc emelter more time The Dutch authorities have agreed to give Pasminco of Australia more time before it has to stop dumping poisonous jarosite waste at its Budel zinc

Joint venture to build long-haul aircraft to compete with Bombardier and Gulfstream

Boeing and GE enter corporate jet market

By Michael Skapinker. Aerospace Correspondent

Boeing and General Electric. both of the US, yesterday launched a joint venture to build business jets capable of flying from New York to Tokyo and

London to Johannesburg.

The joint venture comes at a time of intense competition in the executive jet market between Bombardier of Canada and Gulfstream Aircraft of the US, which are also producing aircraft cape-

ble of flying 6,500 miles.

Boeing said yesterday that its jet, based on the new Boeing 737-700, would be bigger than either the Gulfstream V or Bombardier's Global Express. Mr Philip Condit, Boeing chief executive, said the aircraft would also be more flexible than any of its rivals.

"Customers will be able to configure their airplane for each trip - as a meeting centre, communication post, travelling hotel or employee transport," he said. The aircraft will be able to accommo-

The joint venture, to be called Boeing Business Jets, will deliver its first aircraft at the end of 1998. The first customer will be GE which has ordered two of the aircraft for its own use. All the aircraft will be powered by CFM56 engines produced jointly by GE and Snecma of France. Boeing says this is the first time it has decided to produce jets specifically for the corporate

Most of the Boeings used as corporate jats were bought second-hand from airlines, Boeing says 51 of its aircraft are being used by businesses or gov-ernments. Among these are 14 Boeing 747s, which can carry more than 400 people.

Boeing and GE's decision to

enter the corporate jet market

market, although some of its air-

craft have been converted for use

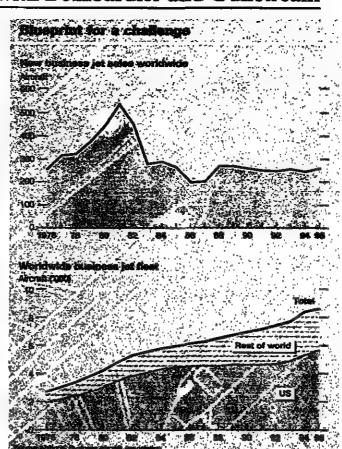
by companies and wealthy indi-

since the early 1980s. In 1981, 500 jets were sold worldwide, according to the Washington-based National Business Aircraft Association. Sales dropped sharply from the mid-1980s, and have averaged between 200 and 250 a year over the past decade, the ssociation says.

Most operators of business aircraft - both jets and turboprops - are in the US, which accounts for 10,000 of the 16,000 aircraft in service worldwide. Texas has more business air-

craft - 1,000 - than any other state, with California second, on 774. Washington DC boasts 362. Europe accounts for 12 per cent of business aircraft, while South America has 9 per cent of the worldwide fleet.

The association says business aircraft worldwide have an average age of 10 years. Sales of new jets account for



Crédit Lyonnais to securitise FFr40bn of loans

Crédit Lyonnais, the state-owned French bank, is to announce today details of a securitisation issue to help increase its financial flexibility at a time when it is facing the prospect of substan-

The bank is to launch a securitisation of about FFr40bn (\$7.69bn), representing one-third of the loan it made to a company created by the French state as part of its restructuring plan

approved last year.

The Issue, called Cyber-val
07-96, will be the largest securitisation carried out on the French market and represents an ambitious expansion in the use of the technique by Crédit Lyonnais, which has announced a number of more modest operations over the past two

Under the scheme, a propor-tion of the loans it has made will be held in a special vehicle with a high credit rating, and sold in the form of shares to external investors. The operation will provide the bank with cash to help it manage its balance sheet.

The loans were made to EPFR - a company guaranteed by the French government - which in turn has made a loan to Consortium de Réalisations, an organisation set up to sell more than FFr135bn in poorly performing assets removed from Crédit Lyonnais' balance sheet during its restructuring. At the end of last year, the size of the total losm was FFr124bn.

Bank executives are still discussing with the French government ways in which the structure of the rescue plan can be altered. However, ministers are keen to avoid any change requiring new approvals from European Union competition authori-

In the meantime, Credit Lyon nais is using the securitisation operation to help increase its room for manoeuvre at a time when falling interest rates and the below-market rates of interest on its loan to EPFR are likely to drag it into substantial losses for 1996. Last month, the bank

armonneed a PProbn securities. tion of loans to pharmacists called Titraphar 06-96, which was until now the largest such issue in France. It has already carried out operations totalling FFr6.1bm in 1994 and FFr4bn in 1995.

BAM may shun South African broker

By Norma Cohen and Philip

Baring Asset Management, one of the biggest foreign investors in South African shares, is considering suspending share dealing through Nedcor, South Africa's fourth-largest bank, after the bank disavowed a research report critical of one of its largest corporate clients.

Nedcor had written to its broking clients criticising its own research report, which caused BAM's Mr Michael Power, head of African and Middle Eastern of South African Breweries" in a equities, to protest at "the obvi-

By Daniel Green in London

Heavy investment in gene

research by Smithkline Beecham, the UK drugs company.

was vindicated yesterday by

deals worth at least \$90m to sell

some of the results to two other

drugs companies. Schering-Plough of the US and

Synthelabo of France will pay

55m and \$35m respectively over

ous violation of Chinese walls". He said his company was considering suspending the purchase of South African shares through Nedcor's brokerage. The analyst who wrote the crit-

is a respected expert on Zimbebween and Zambian shares and BAM said it was anxious to continue receiving his research. receiving a letter of June 28 signed on behalf of Mr Richard

ical report. Mr Michael Coulson.

Mr Power wrote to Nedcor after Laubschar, Nedcor's chief execu-

and Human Genome Sciences, its tion is unlikely to put products

sociate curselves from the conclusions reached and sentiments expressed in the report," said the letter. Nedcor has since ceased distributing copies of the report, which had urged investors to sell their shares.

The report said South African Brewaries held a monopoly in its home beer market and offered customers a limited range of products. It also said the com-pany would be a "worthy target" if the government decided to break up the monopolies which

grew up under apartheid.

The report, which noted that SAB shares are widely held by

on the market before 2005.

SmithKline and HGS said they

wanted the new partners because

there was so much potentially

useful information emerging

from their research. Mr William Haseltine, Human

Genome Sciences' chief executive, said: "We and SmithKline

Beecham have created more con-

crete opportunities to develop

pioneer drugs than either party alone or together can use."

sumer choice. The ANC dominated government has railed against the concentration of economic power in SA but has done little to break up any of the historic business concentrations. SAB would in our view constitute a worthy target."

foreign institutional investors.

said: "The clear beer monopoly

enjoyed by SAB in South Africa

is unnatural and restricts con-

The South African government is currently drafting competition. and antitrust policy.

Nedcor said some opinions expressed in the report "are a misinterpretation of the circum-

be years before the information

The research, genomics, looks

would be turned into products.

Africa, and has £26bn of assets under management worldwide.

tors claim.

stances that have developed in

the South African economy over

UK and US institutional inves

tors have said that objective

research on South Africa is cru-

cial if they are to participate

heavily in that market. The pat-

tern of cross-holdings by South

African companies has limited

transparency and liquidity and makes valuations difficult, inves-

BAM is one of the leading insti-

tutional investors in emerging

markets, particularly South

mation to try to develop drugs

that interfere with or promote

a great many years".

SmithKline Beecham agrees \$90m gene deal But he acknowledged it would eds of Japan, will use that infor-

> at the chemical structure of DNA SmithKline and HGS are also changing their relationship. Until a person's genetic blueprint. now, SmithKline has had first Each of the 70,000 to 100,000 refusal on potential drugs identi-fied by the two. Now, HGS would genes in human DNA triggers the production of a protein. The information HGS and be able to "designate its own proteins for development" said Mr SmithKline are selling consists of details of the genes and their pro-

> Haseltine. teins. Schering-Plough and Synthélabo, together with Tak-HGS shares rose \$% to \$38 in early trading yesterday.

these proteins' activity.

Companies in this issue:

7 Mercury One-2-One 7 Microsoft 18 Morgan Stanley Aziach Systems 18 Mosier industries N Inmind Electric **Bosing** 13 News Corporation 17 Clivetti Cellnet 7 Counge Cons-Cois 17 PFM Сопрем 17 Pillebury **Grédit Lyonnels Bahering-Plough** Delmier-Benz SmithKine Bee **General Bectric** Hongkong Telecont 13 Telepiù 17 Tribune Group

Market Statistics

John Faldex

(grabb)

€Acasai reports service Benchmark Govt bonds Bond totures and options Bond prices and yields Commodities prices Dividends ensounced, UK EMS currency rates FI/S&P-A World indices

24-25 FT-SE Actuaries indicae 18 Foreign exchange 18 Callie prices 18 London share service 20 Menaged tunds service 17 Money markets 19 New Inti bond Issues 30 Short-term int nates 28 US interest nates 18 World Stock Markets

14 Vosper Thomycroft

17 Wherf Holdings

7 Yorkshire Water

Chief price changes yesterday | Part | 2.05 - 0.4 2.075 - 0.125 2.575 _ 0.175 1.57 - 0.09

Barry Riley

US gene research partner.

Those payments would be sup-plemented by royalties on prod-ucts generated by the informa-tion, and by "milestone

payments" which fall due as drug development proceeds.

Three years ago, SmithKline paid \$125m for its stake in HGS,

now standing at about 7 per cent.

The price was criticised by some

five years for a genetic database in the industry as excessive. built by SmithKline Beecham Evan today, the HGS collabora-

How Italy knocked out Germany in bonds



13

self-satisfied G7 communiqué at brated, by implica-tion, the recovery of the US dollar which finally breached the 110

yen level yesterday. It has now risen over the past year by nearly 30 per cent against the yen and by 10 per cent against the D-Mark. Meanwhile the OECD's halfyear report has painted a simi-larly benign broad picture. Its Member states' overall economic growth is to accelerate gently

from 21 to 25 per cent between 1996 and 1997. Inflation, however, will stay close to 2 per cent. It all seems good enough for the policymakers to be able to sneak away for an early holiday. Yet we can find some cracks in the facade. Unemployment in continental Europe is stuck at around 10.5 per cent, with little relief coming next year, accord-

ing to the OECD.

The fiscal projections are quite daunting too, with public sector deficits still running at above 4 per cent of GDP on average for Europe next year. European countries' average gross public sector debt will climb to 77 per cent of GDP - notwithstanding the OECD's generous assumption that their deficit reduction mea-

sures will actually work. Still, the past year can be reckoned to be a success story for international co-operation, both between the US and Japan and within Europe - where an ulti-mate version of harmonisation, monetary union, is already being celebrated by the financial mar-

co-operation has been reflected in the government bond markets by a revival in the appetite for risk. Risky currencies and risky bonds have enjoyed an excellent run as

spreads have narrowed.

According to J.P. Morgan, only
Italy, Spain and Sweden delivered clearly positive local currency bond returns in the first half of 1996 within Europe, and if you add in the currency effect

The shift from confrontation to co-operation has been reflected in government bond markets

Italian BTPs outperformed German bunds by 20 per cent during the six months.

US Treasuries and bunds have underperformed, the latter partly because the German government, whatever the Bundesbank thinks, seems ready to absorb some of the financial risks of the weaker

stronger liquidity flow. Japan has been pursuing an aggressively loose monetary policy and Germany has followed some way down the same road. G7 broad money growth year-on-year has accelerated from about 2 per cent

early in 1995 to more than 5 per cent. growth so much, but Wall Street has been very sensitive to inter-Equity markets have also, of est rate expectations recently.

The shift from confrontation to 12 months in dollars, but by 27 per cent in D-Marks and by 49 per cent in yen.

Against the accommodating international monetary background the UK has been free to pursue some ill-disciplined pre-election policies – including a shrug of the shoulders at 10 per cent broad money growth - with-out suffering any currency weakness. But the Emu-free UK government bond market has missed out on the global quest for risk.

Now the year's second half offers a potentially more testing climate. Short-term interest rates are likely to be raised in the US and Japan before long, and although Germany is much further away from such a step the Bundesbank does appear to have concluded that D-Mark rates need not go any lower.

Tighter money will bring a change of climate. There is scope for a rise in real bond yields, and not just in US Treasuries which have home the brunt of the correction so far.

Typically, the impact of tightness is not evenly spread but is focused on riskier areas. This could be especially bad news for some of the racier investments EU economies.

The markets' appetite for risk bonds. In Europe the picture is more complicated; accelerated more complicated; accelerated such as Latin American Brady economic growth will make Emu more credible because more countries will get close to the Maastricht criteria. This will help the high-yielders.

Equities need not fear the monetary consequences of more rapid course, fed voracionaly on easy investors, it appears, despite money. The world market has their gains, do not feel anything risen by 16 per cent over the past like so smug as the politicians.

This ennouncement expects at a metter of record sub-

£15.0 million Management and Employee Buyout of



Scotland Track Renewals Company Limited

Equity provided by: Hambro European Ventures II Abtrust Scotland Investment Company British Linen Securities Limited

Senior debt and banking facilities provided by: Bank of Scotland

> Lead financial adviser. Coopers & Lybrand

Transaction structured and led by: Hambro European Ventures Limited



41 Tower Hill London ECSN 4HA Hambro European Venues Limited, part of the Hambro Private Equity Group, is regulated by IMRO.

Rémy postpones

release of results

Remy Cointreau, the French drinks group which is suffering from weak cognac sales and high distribution costs, has

postponed the publication of its year-end results from yesterday until late this month. The group, 53 per cent-owned by the Heriard-Dubreuil family, gave no reason; but indicated

NEWS DIGEST

COMPANIES AND FINANCE: EUROPE/INTERNATIONAL

Stena goes for rapid solution to profits gloom

The troubled ferry operator is trying to launch its latest weapon in the high-seas battle for passengers

high-speed crouched at its berth in a slategrey Gothenburg harbour last weekend neatly matched the mood of what has been a gloomy start to the all-important summer season for Sweden's Stena Line.

The world's largest ferry operator was forced to issue a profits warning last month because of the effects of unrelenting competition on the English channel from Eurotunnel, and delays in introducing its much-trumpeted High-speed Sea Service (HSS) ssels on the Irish Sea.

Profits this year are now forecast to be below the SKr201m (\$30.2m) pre-tax surplus earned last year - which in turn was less than half the level of profits in 1994. The difficulties are the more irksome to Stena because they come just as the company is entering an offensive phase of new investment and capacity increases after three years of financial consolidation.

But Mr Bo Lerenius, Stena's chief executive, is adamant the company is not about to change course from its strategy of concentrating on the ferry business - despite growing competition from bridges and tunnels and threats such as the European Union's plan to end on-board duty free sales

in three years. Stena operates 35 ferries on 15 routes around Britain and Scandinavia. This year, it has already introduced one HSS and one new conventional ferry. By the end of the year. two smaller HSS vessels are

he rain splashing down due to be delivered, with a on the huge new third large HSS due early next

year.
"Of course, it is a problem when a number of [adverse] things happen at one time, says Mr Lerenius. "We are talking about a lot of money and Eurotunnel hit us with a worse attack than we anticistick to our strategy. No way will we change our plans to introduce new tonnage

The toughest challenge to Stena at present is on the English Channel Since Eurotunnel opened a year ago, it has taken more than a 40 per cent share of the market partly through offering rock-bottom prices which have squeezed out the price advantage the ferry operators hoped would be the chief weapon in their defences on the route.

Eurotunnel delivered another blow just before the current summer high season with another round of price cuts. "From our point of view, it was very dramatic. It means the whole price level is 50 per cent of what it was before,"

says Mr Lerenius At the same time, Stena has been adding vessels, taking its fleet from three to five on the Dover-Calais route, following the end of an earlier co-meration it had with the French operator SNAT.

The combination of lower prices and rising operating costs forced Stens to join Britain's P&O, the biggest ferry operator on the route, in urging the British government to relax rules preventing co-operation between the ferry



1991 92 63 94 95 98

Stena is interested in a "pooling" arrangement under which the operators would fix capacity and prices on Dover-Calais business and share reve-

But Mr Lerenius is not ready to throw in the towel on the channel. It is the world's husiest ferry route and is a fast growing market: overall volumes rose 20 per cent last year. When prices stabilise, Mr Lerenius says Stena can be one of at least two ferry operators he believes can survive long-term

"When you have put in the effort to win volumes you don't then back off. We have no



thought of doing that - or of selling any part of our busi-

tena's second problem this year has been delays In getting its impressive HSS craft into service. The second of these aluminium-built, jet-engine propelled giant cata-marans should not still have been in Gothenburg last weekend, according to original schedules. It should have been in service on the Stramaer-Belfast Irish Sea route more than a month ago, to complement the first HSS, which also began late on the Dun Laoghaire-Ho-

The process of testing and gaining full operational approval from the maritime authorities for the vessels has taken longer than Stens anticipated. But, the craft are a cornerstone of Stena's strategy which may yet play their part in the battle on the English

Stena is spending SKr3bn on the five HSS craft - three with capacity for 1.500 passengers and 375 cars, and two smaller vessels to carry 900 passengers and 210 cars. They aim to combine the 40-knot speed of much smaller high-speed craft already used by many compa-nies with the capacity of a

ferries offer key elements which Stena - the first ferry operator to invest in them believes will give it a signifi-cant competitive advantage.

They cut journey times by as much as half, enabling operators to charge premium prices. Prices on Dun Laoghaire-Holyhead are up to 30 per cent higher than for conventional vessels. But they have the capacity to gain big volumes.
Mr Lerenius see HSS vessels playing a vital role in the

forture. With duty free set to disappear, and the advent of fixed links like Eurotunnel and the Sweden-Denmark bridgetunnel, the emphasis for farry operators is going to move to getting passengers from A to B, rather than on what Mr Lerenius calls "creative travel".

Stena sees the present threeway split in its revenues between ticket sales, on-board sales and freight income shifting significantly in favour of the former and latter. On non-overnight routes (for the time being, at least, HSS craft have no cahins), high-speed, high-ca-pacity vessels will come into their own, the company

This is why Stena is so anxious to get its first two HSS 1500 vessels into service. There was much pride among com-pany officials at the weekend in Gothenburg as they showed hundreds of curious visitors around the gleaming, spacecraft-like ship. But there was also impa-

tience to get the paying public aboard as soon as possible.

Hugh Carnegy

by the Heriard-Duoreum family, gave no reason, but mulcated that technical problems had delayed the accounts. The company's shares closed yesterday at FFT144, down FFT7 in the past two days, and heavily down from a peak of FFT265 in January 1994. It warned in late April that net profits for the year ended March would be slightly lower than the FFT276m (\$53.6m) of a year earlier. But they would include FFT212m in extraordinary gains from asset sales. Analysis expected it to beyond here the property than the property of the property of the peak of the p expected it to barely break even at the pre-exceptional items level in the latest year. The company has said it would also

maintain the dividend. The strong French franc has hit Rémy's overseas operations. The strong French franc has hit Remy's overseas operationa. Cognac sales, particularly in east Asia, where Remy has tried to push through price increases to offset the franc factor, have fallen. Rising sales of its champagnes; such as Krug and Heidsleck, have only partly offset the decline. Analysts, thought the results delay might mean the company had suffered a further sethack in a foreign market or, less likely, that it planned a financial or corporate restructuring.

The prime target for change is its extensive global distribution. Analysts said the group had too small a product portfolio to justify the cost. Rémy was trying to broaden it by taking on distribution for other companies. It already handles Famous Grouse Scotch whisky from Highland Distilleries which has a cross shareholding in it. It recently took on Grand Metropolitan's brands in Singapore and Malaysia.

Roderick Oram, Consumer Industries Editor

Tribune Group in \$1bn TV buy

Tribune Group, owner of the Chicago Tribune, is to extend the reach of its television station operations to more than 33 per cent of US homes with the \$1bn purchase of Renaissance Communications. The move will add six stations to the 10 already owned and make Tribune the biggest concarn in the field, ahead of Westinghouse Ricctric. The acquisition is part of a strategy to reduce dependence on print media. Coming quickly after Westinghouse's \$3.9bn acquisition of Infinity group last month, it marks a further decisive stage in the rapid consolidation of US media and communications spurred by telecoms deregulation. Under new rules, broadcasting groups may now own systems able to reach 25 per cent of US homes, up from 25 per cent. Tribune's coverage will now span 11 of the main US TV markets and give it greater leverage in negotiations for programming in competition with competitors such as the cable companies and

Pay-per-view Italian soccer

Italian soccer fans will get their first taste of pay-per-view television this autumn, when Telepiù, the Italian pay TV company founded by Mr Silvio Berinsconi, will start special live coverage of the Italian league for subscribers. Telepiù, in which Mr Berinsconi's Fininvest group still has a 10 per cent stake, said yesterday it also planned to launch a

video-on-demand" estvice. The pay-per-view TV service will be available for individual games or in the form of a "season ticket" to all games of single clubs. Coverage will start in September with the top Serie A games and extend to Serie B from January, transmitted by Telepit digital satellite television subsidiary. The season ticket for Serie A will cost L600,000 (\$326), plus L1.7m for the decoder, satellite dish and smart card for access to the

programmes.

Mediaset, the Berlusconi media company set for stock market flotation later this month, has an option to buy Fininvest's 10 per cent stake in Telepiù. The Rupert family of South Africa, and Kirch, the German media group, own about 33 per cent of Telephi each, and are also the largest minority shareholders in Mediaset.

St George out of Metway deal

St George Bank, the Australian regional bank, has effectively abandoned its efforts to acquire Queensland's Metway Bank for A\$820m (US\$644.8m). The bid, which was to have been implemented by a scheme of arrangement, failed to win sufficient backing from Metway shareholders last week. This appeared to clear the way for the Queensland state government's rival plan to create a regional "superbank" by merging Metway with two other government-owned institutions.

Nikki Tali, Sydney

Italian broking link-up cancelled

An Italian joint venture between broking house Akros
Finanziaria and financial service group Sopaf, which owns
brokers Pasfin, has been called off. Mr Guiseppe Daversi,
Sopaf director, said the plan to create a 50–50 venture to be
called Akros Investiment, had been cancelled. Akros shareholders this week opted for a capital increase rather than

Caterpillar to buy Krupp diesel unit | Caio likely to be

Krupp, the leading German steel and engineering group, which has undergone considerable restructuring in recent years, yesterday said it would sell its MaK Maschinenbau subsidiary, which specialises in diesel engines, to Caterpillar, the US group.

The two companies have signed a letter of intent and Krupp said yesterday they expected to reach a final agree-

By Judy Dempsey in Berlin

Verbundnetz Gas, east

Germany's largest gas distribu-

tion group, expects to report operating profits this year for

the first time since reunifica-

tion. Mr Klaus-Ewald Holst,

chairman, said yesterday VNG would move out of the red by

1997, despite the slowdown in

linked to a sharp rise in gas

the region's economy.

reshaped in recent years in an effort to focus activities on larger diesel engines for ships. The company also makes smaller engines for electricity generators and had until recently made parts for the Leopard II tank. Krupp declined to comment

on an eventual sale price for Mak, saying that the due dillgence process was to start immediately. MaK made unspecified net profits last year on sales of DM541m (\$355.1m). Krupp overall made record net profits of DM505m last year on

distribution to households and

industry of natural gas, town

gas and domestic natural gas produced at Salzwedel in the

eastern German state of

The company reduced its

losses last year, from DM26m

to DM1m (\$656.4m). Sales rose 20 per cent, from DM2.3bn in

1994 to DM2.76bn, and send-out

climbed 27 per cent, from 101bn

kilowatt hours to 129.7bn KW/b

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ESN Pension Management Group

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Saxony-Anhalt.

Selling MaK is a further step

in a wide-ranging overhaul at Krupp following its merger with rival steelmaker Hossch in 1998. As part of that process, the Essen-based group said last month it would sall its Orenstain & Koppel escalator activities to Kone, the world's thirdlargest lift producer. It is still looking for a buyer for O&K's mining and construction equip-

Krupp said MaK had a sizeable share of the world market for ships diesels but that this was not enough to ensure its

over the same period.

The expectation of profits

also appears to be linked to the VNG's heavy investment pro-

gramme in the five eastern states, as well as the switch by

households from brown coal -

or lignite - to gas. VNG was sold in 1992 by the

Trenhand privatisation agency to several German gas compa-

nies, including Ruhrgas, the biggest shareholder with a 35

per cent stake. Since then it

Verbundnetz Gas sees return to black

engine-making activities or finding a buyer which fitted." Krupp said.

A sale to Caterpillar made

sense because of the US group had larger diesel engine activities for lorries, ships and construction equipment.

The German group also said Caterpiliar wanted to keep the MaK name and to integrate the company into Caterpillar's engine activities. A merge company would create the world's largest maker of die-sels for ships.

has invested more than DM2bb

in modernising existing pipe-

lines and laying new ones. It

plans to invest a further

The investment programme was also designed to shift con-

sumption away from brown

coal. Until 1990 it was the main

source of energy to industry

and domestic consumers, with

only 6 per cent of the latter linked to gas, compared with 66 per cent to brown coal. Mr Holst said more than 29 per

cent of households were now

DM1.5im until 2000.

either expanding Mak's head of Olivetti

Directors of Olivetti, the lialian computer group, could name a replacement for Mr Corrado Passera, the outgoing chief executive, as early as tomorrow following Banco Ambrosiano Veneto's announcement yesterday that Mr Passers will be the bank's new chief executive.

The front-runner to replace Mr Passera is Mr Francesco Caio, 38, chief executive of Omnitel Pronto Italia, the mobile phone company in cent stake.

Mr Caio is a former manage ment consultant with McKinsey and former assistant to Mr Carlo De Benedetti, the group chairman and joint chief executive, whose family controls the company through Cir, a quoted holding com-

If he takes the job, Mr Caio will have the responsibility of completing Olivetti's transformation into a broad-based information technology and telecoms company, and ensuring that the group meets its 1996 target of ending five consecutive years of net losses.
Ambroveneto, one of Italy's largest quoted banks, said it would finalise the appointment of Mr Passera, 41, to the vacant post of chief executive, at a board meeting towards the end

Mr De Benedetti amounced unexpectedly last week that Mr Passera, one of his closest collaborators over the last 11 years, had received an alternative job offer. Mr De Benedetti indicated that the board would name a replacement before the end of the month. Olivetti would not comment yesterday on the potential successors or the timing of the meeting.

The news of Mr Passera's departure has hit the compa my's share price over the last few days, as he was one of the architects of Olivetti's recovery plan, and head of the newly formed personal computers subsidiary. Yesterday Olivetti's shares recovered slightly to close up L10.6 at L832.1.

Mr Bernhard Auer, a former senior executive with Digital Equipment of the US who joined Olivetti last year, is likely to take charge of the PC business, with a mandate to proceed with the rationalisa-

The PC company has already announced that it broke even in February and March, and is expected to indicate secondquarter figures before the end

receiving gas. VNG expects gas consumption by industry to rise from 21bn KW/h in 1991 to about 50bn KW/h by 2000. Rabobank builds private equity

investment side

Rabobank, one of the Netherlands' largest banks, has bought Gilde Holdings, a prominent continental European venture capital company, for an undisclosed sum in a move that will substantially increase its private equity uvestment activities.

The bank has committed to putting up to F1500m (\$292m) into a new fund to be managed by the Gilde team for invest ment in transactions that emerge from its branch net-

At the moment the bank has only FI 80m invested in the Rabobank is also underwrit-

ing up to Fi lhn of capital for two other funds, FI 800m invested in management buyouts and Pl 200m in information technology companies. Earlier this month Rabobank announced plans to take control of Robeco, a leading Dutch fund manager, as part of a strategy to build its international life assurance and fund

management businesses. Robeco has four listed investment funds: Robeco and Rolinco, which invest in shares, Rorento which focuses on fixed income instruments; and Rodamco, which deals in

bank corporate finance direc-tor, said the purchase of Gilde followed "an important policy change" within Rabobank. The bank had decided to

increase its management buy-out activities through an independent management com-Gilde would also take Raho-

hank into private equity investment outside the Nether-The management team of Gilde will operate indepen-dently of Rabobank and will

have a right to so-called carried interest in the funds once certain performance targets In addition to the purchase

of the management company. Rabobank is paying F1200m to buy the assets of Gilde's four existing funds from their inves-Mr Leendert van Driel, part-

ner at Gilde Partners, said Gilde Partners would be seeking other investors for the Since it was founded in 1982, Gilde Partners has managed

funds with a value of Fi 271m and has invested in over 100 Mr Hooft said Gilde could be floated in five years if it pro-

duced the necessary perfor-

THE SOUTH AFRICAN BREWERIES LIMITED Pag. No. 98/1902/508 (trocoponised in the Papacidic of South Africa) (The Company)

RESULTS OF THE CAPITALISATION SHARE AWARDS

UAL Merchant Sank Limited is authorised to announce that, further to the announcement published on Wednesday, 15 May 1996, elections from ordinary shareholders to receive a final cash dividend of 193 cents per ordinary share on account of the year ended 31 March 1996 in fleu of the capitalisation share award to ordinary shareholders were made in respect of a total of 46 316 730 ordinary shares, resulting in a final cash dividend payment of R89 391 288.90, and elections from holders of the series "3" automatically convertible cumulative preference shares ("B convertible preference shares") to receive a cumulative preferential cash dividend of 127.5 cents per B convertible preference share on account of the year ended 31 March 1996 ("preference cash dividend") in lieu of the capitalisation share award to B convertible preference shareholders were made in respect of a total of 1 207 842 B convertible preference shares, resulting in a preference cash dividend payment of R1 539 998.55. As a result, a total combined dividend payment of R91 601.515.40 (which includes R670 227.95 in residual cash dividends payable in ileu of fractional entitlements to new ordinary shares, arising out of the capitalisation share awards referred to below) is due by the Company.

Accordingly, pursuant to the capitalisation share awards and based on the averaged closing price of the Company's ordinary shares on The Johannesburg Stock Exchange ("the JSE") for the four business days ended Friday, 28 June 1996 of R127.3125, 4 012 949 new ordinary shares, on the basis of 1.60691 new ordinary shares for avery 100 ordinary shares held, are to be issued to ordinary shareholders representing an 84.26% issue and 274 166 new ordinary shares, on the basis of 1.06156 new ordinary shares for every 100 B convenible preference shares held, are to be issued to the holders of the B convertible preference shares representing a 95.39% issue, making a combined total issue of 4.287 115 new ordinary shares. Accordingly, the number of issued ordinary shares in the share capital of the Company has increased from 298 383 093 ordinary shares to 300 670 208 ordinary shares.

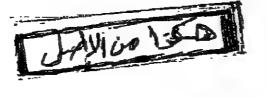
The listing of the 4 297 115 new ordinary shares in the Company will commence on the USE and on the London Stock Exchange from the commencement of business today.

Posting of share certificates and dividend cheques

Share certificates in respect of the new ordinary shares and cheques in respect of the final cash dividend, the preference cash dividend and the residual cash dividend in respect of fractional entitlements to new ordinary shares will be posted to the applicable shareholders registered on the South African share registers by registered and ordinary mail respectively and to the applicable shareholders registered on the United Kingdom share register, by first class mail, today.

By order of the Scard A O C Tonkinson





Andrew Hill, Milan mernatio

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المراجع المحاجم

■ Swiss retail banking A crowded and unprofitable market

Switzerland has lost a quarter of its banks over the past five

years through acquisition and

closure, but Swiss bankers are

in no doubt that their market

remains crowded and unprofit-

938 people, Switzerland is one

of the most densely banked

countries in Europe. With gen-

erally low interest rate mar-

gins and a cost base that aver-

ages more than 75 per cent of

With one branch for every

THE SHAKE-UP AT CREDIT SUISSE

■ Global competition

George Graham, Banking Correspondent

Making sure of one of the few places at the top table

The approach of the would have created one of the millennium has injected an world's largest financial almost apocalyptic spirit into the world's leading universal

A group of 15 or 20 contenders are jostling for position, convinced that, in a matter of years, there will be room at the top table for no more than four or five dominant players which will command the lion's share of the profitable business while the second division picks up

Mr Rainer Gut, who has imprinted his mark indelibly on the Credit Suisse group over the past 20 years, has already made one attempt this year to ensure that Switzerland had a representative in

this "global bulge bracket" of top wholesale banks. His overture in April to

Union Bank of Switzerland

a whiriwind within the some-

times sleepy reinsurance world

with his appointment as chief

executive of Swiss Re in Sep-tember 1994. Mr Mühlemann, who is succeeded by Walter

Kielholz, has attracted a strong stock market following that CS might well be seeking to emu-

In the same month as Mr

Mühlemann's appointment, Swiss Re raised SF15.5bn from

the sale of its direct insurance

companies, leaving the group to concentrate on its core busi-

ness of protecting conventional

insurers against big losses.

Mr Mühlemann, who joined

from McKinsey & Co, the man-

agement consultants, set a tar-

get return on equity of 15 per cent and, from the start, increased Swiss Re's focus on

shareholder interests. "Lukas

Mühlemann is the blue-eyed

boy who, in the eyes of Ameri-

can investors, can do no

wrong," says Mr Angus Runci-

man, insurance analyst at Bar-clays de Zoete Wedd.

Mr Lukas Mühlemann created Mühlemann is a model man-

Aged 46, cigar-puffing Mr tive board of Credit Suisse.

groups, with a commanding position in asset management and a rare strength in investment banking on both sides of the Atlantic

A CS-UBS merger would, Mr Gut still believes, have repre-sented a "quantum leap". But after a vigorous rejection from UBS, Mr Gut looked battered.

Now, he has looked inwards in search of ways of making CS into an international powerhouse. The comprehensive overhaul will organise the group by line of business, sweeping away the mixture of history and geography that has determined CS's structure.

Swiss analysts welcomed the new structure and the promise of SF1700m (\$560m) a year of "If you ever want to run this

agement consultant, fizzing

with ideas and nervous energy

but also creating some upset

within the group with the pace of change be decided was nec-

essary. Indeed, his is precisely the character Mr Rainer Gut

thought needed to push

through the restructuring of

the CS group.

If the plan succeeds, Mr Mühlemann is well placed to follow Mr Gut as chairman of

CS. That, as much as the offi-

cial "differing views", is the reason why Mr Josef Acker-mann, president of Credit Sul-

sse and long seen as heir

apparent to Mr Gut, resigned.

Mr Ackermann had been

offered the post of chief execu-

tive of CSFB, the new inte-grated division embracing both

commercial lending and invest-

ment benking. But colleagues said he felt

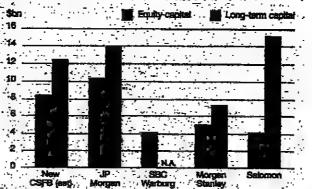
passed over in favour of Mr

Mühlemann. The post goes

instead to Mr Hans-Ulrich Dosrig, a member of the execu-

Blue-eyed boy of the investors

How CSFB stacks up



Raiph Atkins and Nicholas Denton

Another executive from the significant risk that the

empire efficiently, you have to not according to geographical location," said Mr Hans Kauf-

commercial banking division, Mr Oswald Grübel, takes the powerful post of head of global

The appointments do not, however, represent a takeover of the investment bank by the

commercial bank. Both Mr Doerig and Mr Grübel worked

at CSFB in London in its hey-

day as the leading euromarkets house in the 1980s. Moreover,

the key business heads will report primarily into Mr Allen Wheat, who bolsters his posi-

tion as chief operating officer

It is understood that the

executive committee of CSFB

will consist of five executives from the investment banking

and derivatives side of the

business - Mr Wheat, Mr Chris Goekjian, Mr Chuck Ward, Mr

Richard Thornburgh and Mr

Chris Roberts - and three from

Credit Suisse - Mr Doerig, Mr

the executives one or two lev-

els down - those who actually

But the key people will be

Grübel and Mr Rudolf Hug.

of CSFB.

trading of the new CSFB.

run it according to sectors and The new CS organisational chart bears a marked resem-blance to the structure

restructuring will provoke some of them to leave. Mr David Mulford, head of Europe

for CSFB, says: "People are not

when they have this opportu-

But there are two particular

dangers. First, the overheated jobs market in investment

banking, which has already contributed to a haemorrhag-

ing of staff from CSFB's US

bonds division. "To go through

a restructuring right now could be detrimental," says an executive. "You do risk losing

your best people, which is very dangerous in investment bank-

investment banking and com-

marcial banking pay structures
- which Mr Gut said would
begin next year - will be espe-

cially delicate. Credit Suisse

executives balk at the bonuses

paid to CSFB staff, which were

last year double the invest-

ment bank's pre-ize profits. Mr

Wheat alone earned an esti-

Second, the harmonisation of

Bank Julius Baer in Zurich.

-Like SBC, CS has grouped into four divisions: wholesale and investment banking, asset management, private banking, and domestic retail banking. "It's the standard McKinsey model," said Mr Kaufmann.

CS has even brought in a McKinsey man to run the new organisation: Mr Lukas Mühlemann, who ran the management consultancy's Swiss business for 17 years before he left to head Swiss Re, the giant reinsurer, and will now become group chief executive.

The restructuring offers CS a number of immediate gains, First, it creates an opportunity to tackle head-on overcapacity in the Swiss retail banking market, with the elimination of

with considerably less fanfare, by Swiss Bank Corporation. ing private banking and asset management in stand-alone divisions also creates more vis- of this stake. ibility for these low volatility profits, which command greater respect from investors.

The new structure will also allow CS to eliminate unnecessary competition between the group's various units. Mr Gut had already begun to tackle these duplications, with projects under way in areas such as equity research - the group boasted six different analysts following Nestlé shares - and settlement back offices. The process can now be carried

much further. Finally, CS has promised investors that the SFr1bn restructuring charge it will take this year will be covered by profits on its non-core 3,500 jobs and 112 duplicate investments, principally its 47 branches in half the time. Plac-

watt utility. London analysts have long urged CS to get rid What remains to be seen,

however, is whether the combination of Credit Suisse's wholesale banking business with CS First Boston and CS Financial products - a marriage of investment and commercial banking Mr Gut had long resisted - will create a global bulge bracket bank.

Marrying CSFB's entrepreneurial culture and high pay packets with the more stolid mores of Credit Suisse may be difficult. But the new bank will now have the size to compete with the biggest and the right sort of structure to offer corporate clients a full range of financial services under one roof, following the example of European rivals such as BZW and Deutsche Morgan Grenfell.

The path of change over two decades

Credit Subse founded.

Huge losses resulting from a scandal at its Chiosso branch in southern Switzerland shake the whole group.

Joint eurobond venture between Credit Suisse and White Weld metamorphoses into investment banking powerhouse Credit Suisse First Boston in partnership with the US's First Boston.

Mr Rainer Gut becomes chairman.

CS Holding created as umbrella parent for group, with Credit Suisse domestic and international bank as its main subsidiary, but is immediately obliged to bail out its First Boston partner after heavy credit losses.

Credit Suisse takes over Swiss Volksbank, Switzerland's fourth larges bank, and quickly falls foul of a slump in the Swiss housing market.

Swiss Re buys a 20 per cent stake in CS Financial Products, the CS group's derivatives unit, while CS seals the alliance by taking a reciprocal 9 per cent stake

Credit Suisse forms a new alliance with Winterthur insurance. Its attempt to buy Austria's Creditanstalt is rejected. 1996, April Rival Union Bank of Switzerland rebuffs Mr Gut's suggestion of a merger that would have created one of the world's largest banking

1996, July

CS launches radical overhaul of group structure. **George Graham**

Gut choice: Lukas Mühlemann, a model management consultant fizzing with ideas

The structure William Hall, Zurich Four core businesses in refocused

international financial institution

Credit Suisse, the oldest and most international of the Swiss banks, has a deserved reputa-tion as one of the pioneers of modern Swiss banking. It played a decisive role in financing the industrialisation of Switzerland, including the construction of the Gotthard railway tunnel, and is the only European financial services group with a significant investment banking presence in the

However, its recent haphazard growth and acquisition of stand-alone businesses with decentralised managements has resulted in overlapping products and a lack of cuscomer focus. The purpose of the current

restructuring is to change the group from a Swiss bank with international activities into an international financial institution with headquarters and certain core businesses in Swit-

Credit Suisse Group, the new holding company, will be refocused into four core businesses, each operating under its own brand name and legally grouped under two sep-arate Swiss banks: Credit Suisse (using the former Swiss Volksbank as a corporate vehicle) and a big new Swiss bank, Credit Suisse First Boston (within the legal framework of the old Credit Suisse). Functionally, the new Credit Suisse will have two autonomous divisions: Credit Suisse



Volksbank (Swiss domestic banking) and worldwide private banking under its existing brand name Credit Suisse Private Banking.

The former will be run by Mr Paul Meler, currently president of Swiss Volksbank, and the latter will be headed by Mr Klaus Jenny, a member of the executive board of Credit Suisse. Bank Hofmann, Clariden Bank and the reorganised Bank Leu will continue as subsidiaries of the holding com-pany but will be managed by the private banking business

Credit Suisse Volksbank will combine the domestic branch networks of Credit Suisse, Swiss Volksbank and Bank At present, the group oper-

Switzerland and there are over-lapping facilities in 224 locations. In all these locations, the

branches will be amalgamated

- resulting in a reduction of 112 branches. Between 15 and 20 branches will be closed, so the Swiss branch network will shrink by 40 per cent to less than 250 branches after the reorganisation is completed. However. Neue Aargauer Bank, which is the biggest bank in the canton of Aargau, will continue to operate as a full service cional banking subsidiary of

Credit Suisse Volksbenk By far the biggest part of the new Credit Suisse Group will be the enlarged Credit Suisse First Boston, which will be headed by Mr Hans-Ulrig

autonomous divisions, Credit the corporate and investment Suisso First Boston.

In essence, the existing inter-national investment banking being merged with the existing international corporate and Swiss investment banking Credit Suisse Financial Products, a leading player in deriv-atives and risk management products, will also form part of

The top management of the new Credit Suisse Group will be strengthened by a number of new appointments to central support functions. Mr Phillip Colebatch, who

will head Credit Suisse Asset Management, will act as interim group chief financial officer until a replacement is found. A new chief risk officer will also be appointed to ensure that the group's strategy towards risk fits in with its corporate objectives. The new management structure will take effect from January 1 next

The realignment of the new business units will take place over the next couple of years and by the end of 1998, the new organisation should be in place - with each business unit managing its own infrastructure, accounting system and branch

George Graham

1,725,000 Shares

Common Stock

Joint Global Coordinators

Deutsche Morgan Grenfell

This portion of the offering was offered outside the United States.

*M*GM GRAND INC.

Deutsche Morgan Grenfell Dean Witter International Ltd.

MGM Grand, Inc.

8,625,000 Shares

Oppenheimer International Ltd. Montgomery Securities

Oppenheimer & Co., Inc.

ABN AMRO Hoare Govett

Barclays de Zoete Wedd Limited

Credit Lyonnais Securities Robert Fleming & Co. Limited

Schroders

Nomura International

UBS Limited

Goldman Sachs International

6,900,000 Shares

This portion of the offering was offered in the United States.

Deutsche Morgan Grenfell Dean Witter Reynolds Inc.

Bear, Stearns & Co. Inc.

Morgan Stanley & Co. Ladenburg, Thaimann & Co. Inc.

The Seidler Companies

Oppenheimer & Co., Inc. Montgomery Securities

BT Securities Corporation

Salomon Brothers Inc. Raymond James & Associates, Inc.

Sutro & Co. Incorporated

net banking income, the Swiss banks clearly face a long-term profitability problem. "Restructuring in Switzerland is as sure as next Christ-

mas Day, said one senior Swiss banker.

Swiss banker.

Credit Suisse has already ers are a panacea; indeed, he operations were losing money,

try, notably with the 1993 acquisition of Swiss Volksbank, the country's fourth largest bank, and the subsequent takeover of Neue Argauer, a

regional bank. Together, these acquisitions have made it the market leader with a market share of around

30 per cent. However, despite the group's valiant claims that the integration of Volksbank had been successfully completed by the end of last year, it was clear that much more remained to

Mr Rainer Gut, CS chairman.

Yesterday, CS admitted that its basic retail banking

played a part in the restructur-ing of the Swiss banking indus-merger, 30 per cent of the cus-management services to its unitomers move their accounts.

But he also believes firmly that consolidation is needed, and leapt at what he perceived to be an opportunity earlier this year to strike boldly at Switzerland's banking overcapacity by merging with rival Union Bank of Switzerland

The resulting group would have controlled almost half of the domestic banking market, but the scale of the likely job cuts was frightening enough. It certainly provided useful ammunition to bolster UBS's

rejection of the approach. Yesterday, CS admitted that

eting up of the pace of restruct-

vate banking clients.

But the retail network will

bear the brunt of the group's

restructuring, with an esti-

mated 3,500 job cuts in Switzer-

Mr Gut said 112 branches

would close in locations where

Credit Suisse, Volksbank and

Bank Leu units operate in

close proximity. Another 15 to 20 will be shut in unprofitable

land out of 5,000 worldwide.

phased elimination of 2,000 jobs at Volksbank over the last three and a half years, that represents a significant ratch-

Quaker falls foul of fad for 'good-for-you' drinks

liam Smithburg, chair-I man and chief executive of Quaker Oats, appeared before the company's annual meeting and predicted that its disastrous acquisition of Snapple Beverage, the trendy soft drinks maker, would at last come good.

"Wait and watch for 1996. and see what we can do," he told Quaker's long-suffering

So they waited, and they watched: but by now, they must be wishing they had not For last week, Quaker delivered yet another in a long series of warnings that Snapple was failing to live up to expectations, and would again turn in a loss for the year.

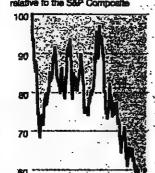
Without doubt. Quaker's acquisition of Snapple for \$1.7bn at the end of 1994 ranks as one of the worst fiascos in recent US corporate history. So what went wrong?

Hindsight is not strictly necessary to explain why Quaker's decision to buy Snapple was ill-founded. Even as Quaker announced the deal, commentators warned that it was paying far too much for a business

Snapple had shot to promi-nence in the US soft drinks market through the phenomenal success of its "new age" iced tea and juice drinks with names like Mango Iced Tea and Amazin' Grape Juice. The drinks were supported by quirky advertising and a dubiHow Snapple turned sour for Quaker Cats

relative to the S&F Composite

العقي للنبيط والمشأري المسالمشية المراوي والأفاعد في الإنظار للمعاولات الرابط والمساو فأتحار وأساره أناط والأنجأ



How 2 1994 Quater Octa armothices the acquisition of Snapple Severage for \$1.7bn in creft. Monants tater Snapple announces a stump in third quarter not profits from \$26.5m to \$7,1m, Quater's share price falls 10%.
 Jac. 17 1985 Quater integrates the marketing of its Snapple and Getorade soft district under Donald Uzzi, its new chief marketing officer. The combination "presents transactors profit growth opportunities, Uzzi says.

● Jun 17 1985 Qualter reports a 20% fall in not profits to \$34.4m for the quarter to December. W Mar S 1995 Qualear's chief financial officer unsepectedly resigns, unsetting Well Street. The company says it will be a reorganisation charge of \$75m to \$50m in the quarter to June. Jun 20 1886 Qualde warm analysis that Smooth is proving many difficult to absorb than aspected. S
 15% before lest year's levels, it says.

Joi 42 1995. Qualter says not income for the quarter to June will fail \$40m to \$50m below expectations, citing a number of problems including poor Snapple sales.

 Oct 22: 1985 Board director Philip Mariness, president and chief operating officer, unexpectedly quits.
 Wall Street says he is walking the plank for the Scappie flago.
 Nov 1: 1995. At the company's source meeting, Custom challenger and other essecutive William Smithburg defends the Snapple exquisition, saying he expects it to notich up double-digit sales growth in the coming year. O Dec 21 1995 Quaker warns that it will plunge into the red in the operator to December because of Snapple's dismail

 Apr 1 1996 Qualter learners on all company boasting of Suppliers position as a distant third in the US drinks market; trailing Coles and Papel. Consumers are harfled; selected. Sinc 26 1996 Qualer warms that accord helf profits will be 16 by a "sales shortfall" at Snepple and by the cost of facinitising a new ad campaign for the brand next modific. Snepple will end the year "algorificantly below break-even, it acids.

"Made from the best stuff on

1992 93 94 95 96

A decade earlier Quaker, best known for its breakfast cereals, had struck gold when it diversified into soft drinks through the acquisition of Stokely-Van Camp, US maker of Gatorade, a sports drink. Thanks to growing consumer enthusiasm for "healthy" drinks and investment by Quaker, sales of Gatorade had

Already market leader in the sports drink segment, Quaker saw the Snapple acquisition as giving it market leadership in ous claim on the bottle cap: making it number one in the

three fastest-growing soft drink segments in the US. Further, it thought it could boost sales of both brands by comhining their distribution chan-

But the danger was that "good-for-you" drinks could just be a fad. And even if they were not, Snapple no longer had the market to itself Coca-Cola and PepsiCo, acutely aware of the danger to their market share, were already launching their own versions of iced teas and juice drinks. In fact, on the same day that Quaker announced the Snapple acquisition, Snapple itself

announced that its net profits

had tumbled from \$28.9m to \$7.1m in the quarter to Septem-

The business definitely had peaked," says Mr William each, an analyst at Donaldson Lufkin & Jenrette. "The category was maturing, and Coke and Pensi were ramning up."

oon after the acquisition had been completed, Quaker discovered another problem. Gatorade sold mainly through supermarkets and convenience stores. while Snapple sold mainly through corner stores and delirate distribution systems.

Quaker wanted Gatorade's distributors to take over the distribution of Snapple to supermarkets and Snapple's distributors to take over the distribution of Getorade to the delis. But Snapple's distribu-tors, who had long-term contracts, refused to go along with the plan because it would mean swapping high-margin Snapple sales for lower-margin

Getorade oules. Eventually, Quaker was forced to back off. But analysis say that while it was trying to sort out the mess, it virtually mooned marketing. Then at last, in April this year, it

campaign that tried to make a virtue of Snapple's position as number three in the US soft drinks market, behind Coke

"It was a disester," says Mr Tun Pirko, managing director of Beymark, a US food and drink consultancy. "It was confusing. It said we are mediocre. It was way off any reasonable strategy for what trademark equity is about."

Now, the campaign has been canned and Quaker is poised to launch a new marketing blitz. Next week it plans to start giving away millions of bottles of Snapple on the streets, in the parks and on beaches of the US, hoping to build up demand in the remaining summer months.

Quaker hopes the costly exercise will help build up Snapple's sales beyond the east and west coast markets, where 70 per cent of its sales are today. But analysts say it faces an uphill battle in trying to counter Coke and Pensi.

So will the Snapple acquisition ever come good for Quaker? "I guess it means what you mean by come good." says Mr John O'Neil, an analyst at Oppenheimer.

"Is it likely to attain the goals Quaker had when it bonght the business? No. Can they make it a profitable com-pany? Yes, but it will wind up being a smaller one, and it will probably never be able to justify what Quaker paid for it."

Richard Tomkins off," he said.

Morgan Stanley benefits from rise in market share

The continuing strength of financial markets helped Morgan Stanley, the investment bank, to nearly double earn-ings per share in its second quarter, which ran to May 31. Fully diluted earnings per share for the quarter were \$1.75, up from 91 cents in the same period of 1995. and from \$1.57 in the first

In early trading trading the shares jumped \$1% to \$50%. Book value per share was \$29.73 at the end of the second

Mr Philip Duff, chief financial officer, said "the operating environment has been about as ideal as one could imagine" although the rise in market interest rates in the second quarter had dampened some areas of activity such as debt underwriting and fixed interest

However, he also attributed the profits improvement to a rise in the firm's market share, which he said was a result of a move in 1994 to expand the business despite a tough trading background.

"It looked like a gamble at the time. It is definitely paying

Looking forward, he said that the environment for equity issues was getting softer but there was still a significant pipeline of deals, although not as large as some of the multibillion dollar offerings Morgan Stanley had managed in the second quarter.

lobile P

Group revenues, net of interest, were \$1.53bn, up from \$1.01bn in the comparable quarter last year and from \$1.45bn in the first quarter, The investment banking division had its best ever quarter with revenues of \$542 ing the quarter to end November 1995 when revenues were \$503m. In the second quarter last year they stood at \$273m, The rise reflected strength in mergers and acquisitions and underwriting.

But trading revenues fell from the record \$704m in the first quarter to \$565m in the second, although still ahead of the \$438m in the second quarter last year. Equity trading was ahead, the bank said, but fixed income was hit by lower trading volumes.

Asset management revenues tumped from \$88m in the comparable quarter to \$143m, largely the result of the aconisition of Miller Anderson &

News executive chosen to run John Fairfax

By Nikki Tait in Sydney

John Fairfax, Australia's leading newspaper publisher, in which Mr Conrad Black, the Canadian media tycoon, holds the largest single stake, yesterday announced that it was appointing Mr Robert Muscat as its new chief

Mr Muscat, 48, is currently the chief operating officer at News Limited, the Australian arm of News Corporation, the media and entertainment group headed by Mr Rupert Murdoch, He replaces Mr Bob Mansfield, who quit earlier this

Fairfax said last night that

Mr Muscat would take over on August 1. He first joined News in 1968, and became production manager of the Sydney newspaper operations in his late twenties. He was subsequently promoted to become group general manager of the newspapers unit in 1987. Mr Muscat took on his

Murdoch's son, became deputy chief executive This effectively ranked Mr

months in the job - but then Muscat as the third most stayed on to ensure some senior executive at News Limited, with Mr Ken Cowley acting as chairman and chief

Rumours of the Muscat appointment first circulated after a Pairfax board meeting last Wednesday. At that stage, Mr Muscat was said to be on holiday, and the potential choice was not confirmed. But it was quickly suggested

that - if the rumours were current position at News last correct - choice of a senior when Mr Lachian News executive to run Fairfax could have some bearing on Murdoch, Mr Rupert the relationship between Mr Black and Mr Murdoch, both of whom are shareholders in the speculation about Fairfax's

At present, Mr Black's stake in the publishing group is pegged at 25 per cent by Australia's rules on foreign ownership of media assets. Mr Murdoch's interest is smaller, below the 5 per cent disclosure

Another 17 per cent is held by Mr Kerry Packer, the Australian businessman who owns Australia's leading TV network and counts as Mr Murdoch's main domestic rival. He is also unable to raise his stake, because of cross-media ownership rules.

A new conservative federal government has promised to review media ownership constraints, and while its inquiry has yet to be set up, most observers assume that the review will eventually lead to some sorting-out of Fairfax's ownership. As a result, relations between the three businessmen and their key executives are closely watched

Yesterday, in a statement Mr Muscat said that leading company such as Fairfax "with a great tradition and even greater potential" was "a career opportunity too good to miss". Fairfax shares rose five

Aztech Systems in the red

The share price of Aztech Systems, Singapore's second largest local electronics company, tumbled yesterday after the company announced a halfyear operating loss.

The computer accessories company said it posted an operating loss of S\$17.5m (US\$12.4m) in the six months to June 30, mainly due to falling prices of CD-ROMs and disk drives for CD-ROMs. Aztech also wrote off S\$15m for an investment in US-based Reveal Computer Products in the first half.

Analysts said they were "shocked" at the extent of more disappointments along the way," said Mr David Tob, Aztech's operating losses, investment analyst at ING Barmainly because the company ings in Singapore Analysts said that although had given no warning of the loss. Aztech's share price fell Aztech's main business - the by 18 per cent to 0.56 Singapore manufacture of "sound cards" cents - a key factor in the wider market's 18 point retreat communicate by fax or modemwas profitable, it was hit by

to 2,273 points. The company's problems raised concerns that other companies in Singapore's electronics sector may also post worse than expected results. The sector accounts for more than half the island's manufacturing output and manufacturing contributed 28 per cent to GDP last year.
"I think there could be some

gins which are affecting the wider economy. Economista said margins were under attack from the rising cost of renting property and land, and by wages which are predicted to grow this year by about 6 to 7 per cent, while

economic growth is alowing.

the declining operating mar-

Inkel Corporation

(incorporated in the Republic of Korea with limited liability) To the Holders of the Company's

U.S. \$20,000,000

% per cent. Conventible Bonds 2003 (the "Bonds")

Notice of Meeting

Notice is hereby given of a Meeting of Bondholders to be held on 25th July, 1996 at 10.00 a.m. at the offices of Chase Manhattan Trustees Limited ("the Trustee") at Woolgate House, Coleman Street, London EC2P 2HD to consider and, if thought fit, approve the following resolutions as Extraordinary Resolutions (as defined in the Trust Deed dated 20th June, 1994 between the Company and the Trustee):

a committee of Bondholders be formed to discuss and negotiste with the Company and any other person any afterations to the Terms and Conditions of the Bonds or the Trust Deed dated 20th June, 1994 made between the Company and the Trustee which such committee considers appropriate in connection with the proposed merger of Inkel Corporation Into Haital Electronics Co., Ltd., pursuant to the Merger Agreement dated 13th May, 1996 between Inkel Corporation, Haital Electronics Co., Ltd. and Now Precision Co., Ltd. (the "Merger") and that the Trustee take such steps as it shell in its sole discretion think fit to form such committee Including by the making of such regulations as the Trustee in its sole discretion considers appropriate for the nomination of members of such committee, the regulation of its proceedings and the extent of its powers: (I) a committee of Bondholders be formed to discuss and negotiate

proceedings and the extent of its powers:
the Trustee be Instructed not to execute any supplemental Trust
Deed either for the purposes of Condition 5(D) of the Bonds or
otherwise to facilitate the Merger unless such supplemental Trust
Deed has been approved by a further Extraordinary Resolution of

in the event of a meeting being convened to approve such supplemental Trust Deed, a resolution be put to such meeting to

approve the weiger.

THAT if resolution 1, above is not approved by the Bondholders and the resolution of the Company's shareholders to approve the Merger is passed, the Trustee be and is hereby directed to give notice to the Company that the Bonds are immediately due and repayable pursuant to Condition 9 of the Bonds and that the Trustee be authorised to take such other steps, including the taking of proceedings against the Company, as the Trustee considers necessary or desirable in connection with the foregoing or otherwise to ensure prompt repayment of the Bonds, all subject only to the Trustee being indemnified to its satisfaction.

Outstanding Bonds (as defined in the Trust Deed) may be deposited with (or to the order or under the control of) a Paying Agent for the purpose of obtaining voting certificates or appointing prodes until 48 hours before the time fixed for the meeting, but not thereafter. THE PRINCIPAL PAYING AGENT

The Chase Manhaman Bank, N.A. Woolgate House, Coleman Street, London EC2P 2HD

PAYING AGENT Chase Manhattan Bank Luxembourg S.A. 5 no Plants L-2338 Luxembourg-Grund

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NOTICE TO BONDHOLDERS **Comest Comparation** especialists in a Company Ltd. by observe in Tabusa, R.S.C.) 85 \$65,000,000 4 per cent. Bonds Dec 2002 Adjustment of **Conversion Price** NOTICE IS HEREBY

GIVEN that as a result of the distribution of stock dividends of 53,024,170 shares by Chia price of the Convertible Bond has, in accordance with the Trust Deed dated May 24, 1994, been adjusted from NT \$38 to NT \$36 with effect from Dated: June 27, 1996

CHELSEA BUILDING SOCIETY £12.000.000 Subordinated Floating Rate Notes Due 1999 ogs with the tem an accommon was not seen and conditions of the Notes, codice is basely given that the liste of interest for the historial Period 23 June 1966 to 23 December 1956 has been timed at 4.625 per cent per assum. The coupon smooth per \$1,00,000 will be \$53,78,77 armitte on 20 December 1956 makes payable on 30 Dec 1821. SHALLEL BANK LIMITED

PERSONAL

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TANJONG PUBLIC LIMITED COMPANY (Incorporated in England No. 210674) NOTICE OF SEXTY-NINTH

ANNUAL GENERAL MEETING

NOTICE IS HERREY CIVEN that the Sixty-Ninth Annual General Meeting of TANJONG PUBLIC LIMITED COMPANY will be held at 10.30 a.m. on Wednesday, 24 July 1996 at the Mahkom Balicoom III — Balicoon Floor, Hotel Isane, 73 Juliu Raja Chulan, 50200 Kuala Lampar, Malaysia for the following purposes:

(1) To receive and consider the multired accounts of the Company and of the Group for the year ended 31 January 1996 and the Reports of the Directors and Auditors thereon.

(2) To declare a final gross dividead of 12.8 sea per share of 7.5 peace each less Malayann Income Tax at 30% in respect of the year ended (3) To re-elect Mr Augustus Ralph Marshall, a Director who ratires by rotation in accordance with Articles 76 and 77 of the Company's Articles of Association, as Director of the Company parsuant to Article 74 of the Articles of Association.

(4) To re-appoint Messus Price Waterhouse as Auditors of the Company and to surjourse the Directors to fix their renumeration.

(5) To transact any other business of which due notice shall have been given in accordance with the Companies Act, 1985. BY ORDER OF THE BOARD

2 July 1996

17th Floor Messure Bousteed Julan Raja Chulen 50200 Kuula Lumpur

A princy med not be a member of the Company.

Copies of Directors' Service Contracts are available for inspection at the Company's regimened office during business hours from 2 July 1996 to 24 July 1996 and will be available for inspection at the place of the Assumal General Meeting liferon minutes price to and during the steering.

EUROPEAN INVESTMENT BANK

17 June 1.996 (included) to 15 September 1.996 (excluded). interest payable on 15 September 1.996 will amount to ESP 1.903 per

Madrid, 17 June 1996 RANCO CENTRAL HISPANO Paying and Calculation Agent Banco Control Histornounes

£145.95 per £5,000 Note, pay-able on 30th December, 1996.

Buckers Treat

aguitaine uk limited £368,015,000 Guaranteed Unsecured Floating Rate Notes 2003 For the six seconds 28th June, 1996 to 30th December, 1996, the Notes will carry an interest rate of 5.775% per annual

JUPITER TYNDALL GLOBAL FUND, SICAY Registered Office: Lenembourg, 13, me Goethe R.C. Lastembourg B 34.593 DIVIDEND NOTICE

The Directors resolved on 28 June 1996 to pay a divideod of £0,02 per share to shar of the High Yleid Portfolio on record on 28 June 1996 with an exdividend date of 29 Jame 1996 Physiolic on 3 July 1996.

TANJONG PUBLIC LIMITED COMPANY

(Becorporated in Engiand under the Conquestes Acts 1908-1917 : No. 210874) NOTICE OF EXTRAORDINARY GENERAL MIKETING

NOTICE IS HEREEY GIVEN that an Extraordinary General Meeting of TANDONG PUBLIC LIMETED COMPANY ("the Company") will be held at 12.00 noon, on Wednesday, 24 July 1996 at the Mahkota Buliroom III - Buliroom Floor, Hotel Istens, 73 Jalan Raja Chulan, 92200 Kosla Lumpur, Makaysis for the purpose of considering and, if thought fit, passing the following Special Resolution:

SPECIAL RESOLUTION

PROPOSED AMENDMENTS TO THE ARTICLES OF ASSOCIATION OF THE COMPANY

OF ASSOCIATION OF THE CUMPANY
"THAT as a result of the ordinary shares of the Company which are
listed on the Knala Lumpur Stock. Exchange having become prescribed
securities under Section 14 of the Malaysian Securities Industry (Central
Depositories) Act 1991 and in order to comply with the Listing
Requirements of the Knala Lumpur Stock Exchange and to clarify
provisions on the regulation of the internal affairs of the Company, the
new Articles of Association as contained in Appendix II to the Circular
to Shareholders dated 2 July 1996 accompanying the Notice convening
this meeting (with deletions from and additions to the existing Articles
of Association marked-up for ease of reference) be and are hereby
approved and adopted as the Articles of Association of the Company,
in substitution for, and to the exclusion of all the existing Articles."

BY ORDER OF THE BOARD STUAGAMY RAMASAMY

17th Floor Menara Boustead Jalan Rajs Chulan 50200 Kutla Lumpur Malaysia

Dute: 2 July 1996

her of the Company antitled to amend and vote is emided to appelet on a proxima of his/her own choice to atland and vote instead of him/her.

2. A proxy aced not be a member of the Company.

The form of proxy must be deposited at the Company's Principal Off From, Metara Bousted, Islan Raja Chiha, 30000 Kusla Lumpur, and issu thus 48 hours before the time appointed for the meeting or meeting. Lodging of a completed form of proxy will not probable from a strending and voting in persons at the meeting should the subsequently with to do so.

CONTRACTS & TENDERS

ANNOUNCEMENT

SUPPLY OF X-RAY MACHINES

The Ministry of Health of Albania intends to buy with its funds 5 x-ray machines; bidding process will be conducted through Open International Bidding.

The Ministry of Health of Albania is pleased to invite all eligible sources which can supply the above mentioned goods.

A complete set of bid documents in English may be purchased by any eligible bidder on the submission of written application to the above and upon payment of a non refundable fee of USD 100. Bids will be opened in the presence of those bidders representatives

For further information you can contact the following address: Investment & Infrastructure Department Ministry of Health, Tirana, ALBANIA Tel: +355 42 64661 Fax: +355 42 64632

who choose to attend at 12 o'clock, August 15, 1996.

CONTRACTS & TENDERS

Republic of Albania Albanian Telecom

Announcement

Albanian Telecom has established to use chipcards as means of payment for the country's payphone system.

Card manufacturers are invited to participate on the tender which will be organised on the July 15th, Albanian Telecom

A detailed description of technical specifications can be found in the following address: Albanian Telecom

Phone: +355 42 34254 Fax: +355 42 32200

42, "Myslym Shyn" Street

Tirana, Albania

Vice General Manager

ESP 20.000.000,000

Capped Floating Rate Notes Due 1.999

The notes will bear interest at 7,52813% per annum for the interest period



PINAULT PRINTEMPS-REDOUTE

NOTICE TO HOLDERS OF SHAME PURCHASE WARRANTS EXPIRING ON AUGUST 2, 1996

[SICCVAM code 21910] Holders of Pinauli-Printemps-Redoute share purchase warrants (Bons d'Acquisition d'Actions) issued in July 1993 by SAMAG (Société de la Contraction de la Co Alsocienne de Magasins) are hereby reminded that said wearrants will expire with effect from the close of business on August 2, 1996. The warrants will be struck off the Official List of the close of the Bourse trading session of Friday August 2, 1996. Thereafter, any outstanding warrants will be null and void.

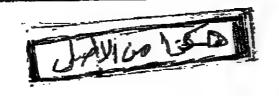
Each warrant entitles the holder, on payment of the son of FF 722, to one share of FF 100 naminal value.

Holders of warrants wishing to exercise their entitlement are invited to contact their authorized intermediary no later than August 2, 1996.

> KfW International Inc. Nom. ITL 150,000,000,000,-

Floating Rate Notes due 1998 Notice is hereby given that from 28 June 1996 to 30 September 1996 (94 days) the notes will carry an interest rate of 8,16094% per annum. Interest payable on 30 September 1996 will amount to ITL 108,546 per ITL 5,000,000 Note and ITL 1.065,456 per ITL 50,000,000 Note.

Agent Bank: Société Européenne de Banque, Société Anonyme



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COMPANY NEWS: UK

Mobile phone growth slowing

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MAL MEDICAGE

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The UK mobile telephone business is continuing to show strong growth aithough not at the strong levels seen last

Quarterly subscriber figures for the three principal network operators, published yesterday, show Vodafone extending its lead over Cellnet in the overall market and over Orange in digital ser-

Vodafone's shares gained 3p to close at 245%p, while Orange lost 5%p to close at 219'4p. Orange was floated on the main market in March this year at 205p. Vodafone made 273,000 connections

gross in the past quarter, giving net con-nections of 106,000. Total UK subscribers amounted to 2.56m, while the number of digital subscribers was 718,000, an increase of 27 per

cent during the quarter. Vodafone said the 20 per cent or more seen in Scanding this reflected success in attracting new via. subscribers and retaining customers moving from the older analogue networks to

Churn, the number of subscribers leaving the network, was about 20 per cent. Cellnet said gross subscriptions amounted to 261,000, giving a net addition of 69,000 new customers. Total subscribers are now 2.46m of which 495,000 are digital. Churn was 28 per cent.

Orange, which launched its network two years ago and offers only digital services, attracted a net 85,000 subscribers and now had 573,000. It was adding on average 30,000 subscribers a month to the network. Churn was 17.6 per cent.

All networks are seeing a slowing in customer recruitment as the business matures. Penetration, at under 10 per cent of the population, is low compared with

Mobile Communications, the Financial Times newsletter, notes that Orange's share of net new digital connections has fallen from 39.3 per cent in January before its flotation to 24.2 per cent last month. This is attributed to price-cutting by rivals, together with moves to copy Orange's initiatives, such as pricing calls by the second and combining call charges and line rental in one payment.

Mercury One-2-One, the smallest opera-

tor, did not release quarterly figures yesterday, but there were estimates that it added 30,000 net subscribers.

Sir Gerald Whent, Vodafone chairman was paid £600,000 in salary and benefits last year according to the annual report compared with 2561,000 in 1995. Mr Christopher Gent, managing director was paid \$250,000 compared with \$252,000.

acquires **Camelot** for \$100m

Cookson

Cookson Group, the industrial materials company, yesterday strengthened its presence in electronic components by acquiring Camelot Systems,

the US dispenser manufac-turer, for up to \$100m.

The UK group said the acquisition would make it the world's only integrated manu-facturer of electronic materials, laminates and circuit board equipment for the semiconductor industry.

The family owners of Camelot, based in Massachusetts. will initially receive \$57m in cash, with a deferred payment of up to \$43m which would become payable if its profits double over the next three years. Last year, Camelot made profits of \$7.7m on sales of about \$40m. Mr Richard Oster, Cookson

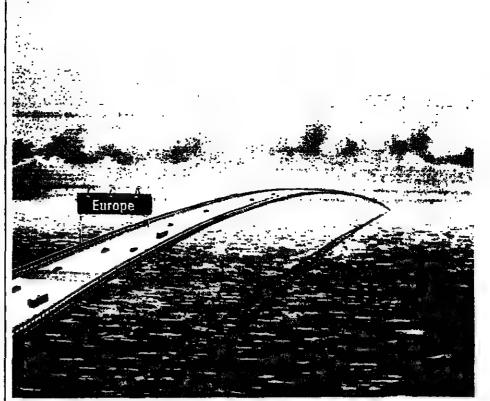
chief executive, said the acqui-sition would "complete the jig-saw" in its electronic materials arm. Cookson's largest division, it last year had oper-ating profits of £79.8m (\$122m)

Camelot, which makes dis pensers for chemicals and solder creams, has been discussing a possible deal with Cookson for nine mouths. Mr Oster said it had grown rapidly - gaining 20 per cent of the world market for such dispensers - but did not have the financial muscle to expand

internationally.

He hinted that the group was considering similar acquisitions, adding that projections for each flow and borrowings over the next five years should enable it to spend about £500m on bolt-ons.

Cookson shares fell 3p to



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WestLB

Inspirations seeks £12m in fresh cash call

By Scheberssade Demochida

Inspirations, the package holiday group, yesterday announced its second rights issue in 18 months and the proposed acquisition of Skiers World, a Cardiff-based tour operating company, for up to £1.75m.

Mr Vic Fatah, chief executive, said that Inspirations would raise £12.1m net of expenses through a rights issue of 12.7m 7.7 per cent convertible preference shares, on the basis of 2 preference for every 5 ordinary.

The shares, at 100p, are convertible at 150p a share in 1999 and the issue is fully underwritten by Beeson Greg-ory, stockbroker. inspirations' shares closed

4p down at 125p yesterday. The proceeds of the issue will be partly used to acquire Skiers World, which sells skiing holidays mainly to the US and Canada simed at the school holiday market. Inspirations said that Skiers

World made pre-tax profits of 2354,962 on turnover of 22.7m in the year to April 30. It is warranted to achieve pre-tax profits of not less than 2600,000 in its current year to April 1997.

Mr Fatah said Skiers World was a high margin business with strong winter cashflow which would help reduce Inspirations' seasonal imbal-

Mr Jim Harris, chairman, said the rest of the proceeds would be used to strengthen the group's balance sheet and fund further expansion.

Its plans include increasing the number of AT Mays travel agency shops, which it operates through a joint venture with Carlson Travel Group, from 313 to 400, and paying deferred consideration of £2m to British Airways for Caledo-

nian Airways.
Inspirations helped fund its
216.6m acquisition of Caledonian from BA in December 1994 through a £7m rights

News of the acquisition and rights issued accompanied the company's results for the 6 months to March 31.

Pre-tax losses increased from £3.6m to £13.26m on a 95 per cent rise in turnover to

It blamed the higher losses partly on the inclusion of Caledonian Airways for the first time in the traditionally lossmaking winter period and partly on greater overheads caused by expansion

Mr Harris said Caledonian Airways carried 20 per cent more passengers in winter 1995-96, compared with the previous winter. He said that booking levels for summer 1996 were 5 per cent ahead of last year, and that prices were

Losses per share were 26.38p (8.52p), but the interim dividend was increased rose 11 per

Thomas Cook strengthens hand by adding Sunworld

Location Industries

Thomas Cook, the high street travel agent, finally amounced yesterday the acquisition of Sunworld, the tour operator privately owned by GVI, the Spanish group, for an undis-closed sum, believed to be

The deal, which includes the Oasis Park Hotel, a three-star hotel in Minorca, had been expected last month but was delayed by technicalities. Thomas Cook said buying

Surworld, which has a 5 per cent share of the UE short-heal package holiday market, would strengthen its position in its core UK market. Sunworld is the the UK's fifth largest tour operator after Thomson, Airtours, First Choice and Cos-. mos-Avro. The five account for about 60 per cent of oversees summer holidays.

Compass,

the

expanding international con-

tract catering group, virtually

doubled its presence in the US

education sector yesterday

with the acquisition of a pri-vate Florida caterer serving

It is paying up to \$26m for Professional Food-Service Man-

agement (PFM), which has 100

accounts in 27 states. Sales in

the year to August 31 were

The deal almost doubles

Compass's sales to US educa-tional establishments to \$200m

a year. While this is less than

half the sales of market leader

Marriott, it does put the group

firmly in fourth place behind Sodexho and Aramark.

"This deal marks a big stride

in catching up with the opposi-tion," said Mr Mike Bailey, head of Compass in the US, in

The US education market

was worth \$19hn a year and was under-contracted, Mr Bai-

ley said. He expected rapidly to

drive margins at the acquisi-tion up to 4 per cent - the level

Compass has achieved at Can-

New York yesterday.

colleges and universities.

tive of Sunworld and founding shareholder is to leave the

He said Sunworld needed a strong business partner to accelerate its growth and open up new opportunities. "The time is now right for

me to move on," he said. Thomas Cook, which is owned by Westdeutsche Landesbank, turned to Sunworld as its own label supplier last year, after dropping First Choice, the company in which it took a 21 per ceni stake in

It has further reduced its stake to 11 per cent, mainly by choosing not to participate in a £44.1m rights issue last Octo-ber, when First Choice announced profits of only £1.8m after a disastrous sum-

mer sesson.
Mr Ulrich Zierke, chief executive of the Thomas Cook group, said the acquisition

teen, its US business acquired

Compass's existing business in education was mainly in

schools, while PFM's accounts

were principally with colleges

The combination of the two

would allow the group to com-pete far more effectively in the US education sector, said Mr

The consideration of \$24m on

completion is payable partly in

cash, partly through a \$2.5m

loan note and partly through the issue of 1.74m shares. The

shares closed unchanged yes-

The halance of \$2m is pay-

able in two years, subject to

Mr Larry Pande, the vendor

who built the business over 30

years, is joining Compass as a

The rest of the PFM manage-

ment team is being retained.

Last month, Compass com-pleted the acquisition of Eurest

France by paying FFr590m

(\$114m) to buy out the interest

held by its rival Sodexho, the

leading French contract caterer that also owns Gardner

Merchant of the UK.

just over two years ago.

and universities.

terday at 5860.

performance.

nomeultmat.

Compass to spend

\$26m on Florida

catering business

rapidly

Mr Peter Long, chief execu- of Sunworld, which is subject to European Commission approval, was "a natural extension of our existing associa-

> Mr Johannes Ringel, chair-man, said the deal was a dem-onstration of WestLB's commitment to the group's travel business. There have been persistent rumours that WestLB might sell off the retail side. Mr Mark McCafferty, the

managing director of worldwide travel-related businesse at Thomas Cook said the acquisition was in line with the group's strategy to have a mix of product and distribution as well as a mix of distribution channels. "If you are in tour operating

only or retail only, you are vul-Thomas Cook last year

reported pre-tax profits of £25.2m after a £20.2m write-down of its shareholding in

NEWS DIGEST

Pillsbury in South

Pillsbury, a US substitiary of Grand Metropolitan, yesterday hought São Paulo-basad Frescarini, Brazil's leading manufac turer of refrigerated dough and fresh pasts for an undisclosed sum "not material to GrandMet shareholder funds".

addition to fresh pesta. It has tripled in size since 1993.

in a very important growth market." Quantum buys Lloyd's stake

Mr George Scros's Quenium Fund has bought a 4.4 per cent stake in Hiscox Select, the Lloyd's of London investment company. The move follows a revival in investor interest at Lloyd's, which hopes to implement its recovery plan in

Earlier this year, Mr Soros acquired a 3.6 per cent stake in CLM Insurance Fund, another Lloyd's investment vehicle.

IMI has acquired Mosier Industries of Ohio, a maker of pneumatic actuators, for \$4.7m (£3.1m). The deal was effected

American purchase

Frescarini is being sold by LPC, a division of the French multinational Danone and a manufacturer in Brazil of dairy

The Frescarini business has annual sales of \$45m (£29m). It includes refrigerated dough for Pastels (snacks) and pizza, in Lucio Rizzi, president of Pilisbury International, commented: "Frescarini gives us leadership in refrigerated dough

Raiph Atkins

In Brief

34.4 (31.4)
2.25 (1.03)
6.37 (6.76)
89 (110.8)
5.77 (0.51)
0.21 (1.8)
26.381 (8.52.)
24.66 (20.06)
11.49 (9.1)
1.8 (0.34)
17.31 (10.41)

Earnings shown basic, Dividends shown net. Figures in brackets are for corresponding period. After exceptional charge. VAlter exceptional credit. †On increased capital. | Net rental income. **Comparatives restated and cover 11 months. III Gross revenue. **Comparatives for 12 months. \$USM stock.

through IMI Norgreu, part of its fluid power operation.

VOSPER THORNYCROFT, the warship builder, has acquired Maritime Dynamics, the US manufacturer of ride control systems for fast ferries, for \$8.5m (£5.6m) cash. The UK group predicted the two companies, which have worked together for several years, would develop new technology and products for international ferry operators.

Chief of payment

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Canadian Pacific Holdings Limited

introduction to **LONDON STOCK EXCHANGE**

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Application has been made to London Stock Exchange for 362,745,627 issued common shares without nominal or par value in Canadian Pacific Holdings Limited ("New CPL") to be admitted to the Official List. The common shares are being issued pursuant to a reprognisation of the corporate structure of Canadian Pacific Limited ("Old CPL") by a statutory arrangement under the Canada Business Corporations Act which is expected to become effective on, or shortly after, 3 July 1996 (the "Effective Dete"). The ordinary shares of Old CPL will be exchanged for common shares in New CPL on a one for one basis and the preference shares of Old CPL will be converted into common shares of New CPL in the ratio of one common share for every 4.263 preference shares.

Old CPL will be renamed Canadian Pacific Rallway Company and New CPL will be renamed Canadian Pacific Limited on the Effective Date.

It is anticipated that admission of the common shares of New CPL will take place, and that dealings in such shares will commence at 2.30pm, on the Effective Date. At the same time the common shares and preference shares of Old CPL will be de-listed.

The Deputy Secretary and Registrar Canadian Pacific Limited 62-65 Trataigar Square London WC2N 5DY

Austin Priora Securities Limited Augtin Friers House 2-6 Austin Friens London EC2N 2HE

3 July 1996

INTERNATIONAL MOSCOW BANK

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US\$ 33,000,000

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> JSC ANGARSK PETROCHEMICAL COMPANY Angarsk, Irkutsk Region, Russian Federation

> > Co-Arrangers and Underwriters:

Creditanstalt Bankverein London Branch

International Moscow Bank Moscow

Participants:

Banque Commerciale Pour L'Europe du Nord - Eurobank, Paris Bayerische Vereinsbank AG, London Branch WestMerchant

June 1996

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Financial Times Surveys **Announcement**

The Ghana and Romania surveys scheduled to appear on Friday 5 July will now be published on Tuesday 9 July

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The second secon

Strong housing figures send Treasuries lower

By Lisa Bransten in New York and Sarper Iskandar in London

Another set of surprisingly strong housing figures sent US Treasury prices lower in early trading yesterday as the Federal Reserve's Open Market Committee began its two-day meeting to consider monetary

policy.
In mid-morning trading, the benchmark 30-year Treasury was 🛔 lower at 88% to yield 6.934 per cent and the two-year note was down 1/4 at 1001.
yielding 6.216 per cent. By noon, the September 30-year bond future was 🕹 weaker at

Sales of new homes in May rose to 828,000 from 770,000 in April, suggesting that rising interest rates have not slowed

home sales to have fallen to

While most on Wall Street had discounted the chances that the Fed would boost interest rates at this week's FOMC meeting, some economists suggested yesterday that the strong housing data might spur the Fed to tighten sooner rather than later.

"The strength in the housing sector should begin to make bond bulls and Fed policy makers alike rethink the consensus view that a downturn in interest-sensitive sectors such as housing will naturally slow the the year," said Mr Joseph Liro of CIBC Wood Gundy. The market paid little atten-

activity in the housing sector. tion to a 0.3 per cent increase Economists had expected new in the index of leading economic indicators for May which was largely what economists had forecast.

GOVERNMENT BONDS

■ The weakness of US Treasuries spilled into European markets unevenly, with Italian bonds showing the best perfor-

Liffe's September BTP future settled at 116.82, unchanged. In the cash market, the 10-year benchmark BTP was also unchanged at 101.82, its yield spread over Bunds 4 basis points tighter at 288 points. Analysts agree that further convergence of Italian yields with those of German bunds will depend on the outcome of the US Fed's FOMC meeting.
"Provided the Fed does not

tighten monetary policy, the spread [of BTP yields over spread (of Dir yinds) ven bunds) could go down to around 250 basis points in the medium term", said Ma Marie Owens Thomsen, chief econo-mist at RIP-Dresduer in Paris.

■ German bunds were the poorest performers among European markets. Liffe's September bund future closed at 95.53, down 0.17. In the cash market, the 10-year benchmark bund was 0.22 lower at 97.98.

■ UK gilts slightly outper-formed bunds. Liffe's Septem-ber long gilt future settled unchanged at 106 g, having

totally erased earlier gains. The market was supported by the firmness of sterling in foreign exchange dealing.

down by falling Treasuries and bunds. Matif's September notional fature closed at 121.82 down 0.06, after reaching a low

of 121.76. In the cash market, the 7% per cent OAT due 2006 lost 0.10 to close at 105.2 its yield was 3 hasis points lower than that of the equivalent bund, com-pared with 2 hasis points on

The sell-off "could have been worse", said one French futures trader. The market was supported by late buyers who felt they had missed out on last week's rally."

Matif, the French financial futures exchange, yesterday announced a reduction in the margin requirement for its notional and Ecu bond conmonth Pibor rates, due to lower market volatility.

The daily fluctuation limits were also reduced, from 25 to 2.0 percentage points on the bond futures and from 0.80 to 0.60 points on the Pibor contract. These changes will take effect on July 5 (margin requirement) and July 8 (new fluctuation limits).

The list of instruments accepted as initial margin has also been extended to include French and German long-term government bonds, valued at 80 per cent of their nominal

Saab plans \$1bn facility as part of wider refinancing

Saab, the Swedish car manufacturer, is seeking to raise \$1hn through a five-year syndicated loan as part of a wider plan to put the company on a sound financial footing.

The facility, arranged by
JP. Morgan, follows news last week that Saab's two owners, General Motors of the US and Investor, the main arm of the

SYNDICATED LOANS

Wallenberg empire, are to pump SKr3.48hm (\$534m) into Sash in a refinancing deal that should lead to a complete takeover by GM.
The facility will replace a

\$750m loan which Saab took out in 1991 and provide the company with additional fund-ing. J.P. Morgan declined to give details on pricing but it is believed that it could be in line with that on an outstanding £120m five-year transaction for Saab's UK financing arm, which was priced at between 40 and 42.5 basis points over London interbank offered rate. The company held a meeting with about a dozen banks which have been invited to underwrite the loan. Under-writers will be asked to take on a hefty \$100m each. The underwriting phase is expected to be completed by the middle of the month, after which the loan will be released into general

Saab is the latest of several Swedish companies to tap the syndicated loans market in recent months, and could well have been encouraged by the willingness of banks to participate in facilities for the others. Construction company Skanska is also believed to be close to launching a \$650m facility, via Deutsche and Chase.

Several Swedish facilities strong interest from the market suggesting that any credit concerns which banks may have had as a result of the country's problems in recent years have faded.

pollar rea

Duel creas mater

BOI BOKEY RATE

The \$750m seven-year refinancing for Investor was raised to \$1bn despite its fine terms. Fifteen banks, including the arranger Enskilds, have participated in the loan, which is scheduled to be signed

Other Swedish loans which debut deal for Vasakronan, the Swedish state-owned real estate company, which was launched at \$200m and raised to \$300m, and a five-year trans-action for ASG, a freight-forwarding company, up from an initial DM300m to DM350m.

Other high-profile facilities have also been increased, suggesting that banks are still flush with cash. The \$500m loan for SPT Telecom of the Czech Republic, which had been put on hold because of a legal dispute, is set to be increased by about 50 per cent after attracting \$1bn from the market. The loan, led by Chase and Citibank, should be signed

next week The \$500m loan for Billiton the international mining and minerals subsidiary of South Africa's Gencor, was also raised, to \$650m, after being heavily over-subscribed in general syndication. Banks were keen to be in the deal, which was signed last week, because of the relatively generous terms and the prospect of future business from the com-

Among new loans, Southern Energy, which failed to take over Southern Water, is seeking to raise 2500m for its own, requirements, via BZW and

--- Low coupon yield --- -- Medium coupon yield --- --- Migh coupon yield --- --- Migh coupon yield --- --- Migh coupon yield --- --- Jul 2 Jul 1 Yr. ago Jul 2 Jul 1 Yr. ago Jul 2 Jul 1 Yr. ago 7.20 7.30 8.16 7.34 7.37 8.17 7.48 7.45 8.54

Steady flow of smaller deals in wide range of currencies

By Conner Middelmann

With this week's horizon clouded by events in the US the ongoing meeting of the Federal Open Market Committee, Thursday's Independence Day and Friday's jobs data -large eurobond offerings appear to have been put on hold. Nevertheless, the market saw a steady flow of smaller deals yesterday in a wide range

of currencies. The largest and most notable offering was a DM1.25hn issue of asset-backed floating-rate notes for Discover, the largest US credit card company.

The bonds are backed by

credit card receivables originated in the US - only the second such transaction in the D-Mark sector - and are rated triple A.

The pricing of the deal. seven basis points over Libor at the re-offer price, was the same as on Citibank's DM1bn offering launched some months

well-known name and its deal was larger, this reflected strong investor demand, said lead manager Merrill Lynch. An official said the bonds were placed mainly among German and Luxembourg money market funds as well as banks, corporate treasuries

and fund managers around

INTERNATIONAL BONDS

"Amid the ongoing uncertainty over the direction of interest rates, some funds are very interested in defensive instruments like FRNs," he

This defensive stance also benefited Westpac, the Austra-lian bank, which issued \$500m of one-year FRNs yielding Libor less 7 basis points at the re-offer price. Lead manager HSBC

reported sales to money mar-

banks, mainly in the UK, UK supermarket chain J. Salusbury launched \$200m of three-year bonds priced to offer a substantial yield pick-up over similarly rated corporate bonds in that maturity: at a re-offer spread of 25 basis points over Treasuries, it compared favourably with McDonalds' bonds due December 1999 which trade at 8 basis points over Treasuries, and Hewlett-Packard bonds yielding 12 basis points more, a dealer at lead Goldman Sachs

Two Latin borrowers also tapped the dollar market: for more risk-seeking investors, the unrated City of Rio de Janeiro issued \$125m of threeyear bonds priced to yield 400 basis points over Tressuries, via Merrill Lynch, while Banco de Inversiones y Comercio Exterior, the Argentine foreign trade bank, issued \$100m of two-year, government-guaran-teed bonds yielding 240 besis

	Account	Coupon	Price	Materity	Feta	Spread for	Book-namer
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Final terms, non-callable unless stated. Yield spread jover relevant government bond) at leanth supplied by feed manager. # Unleted § Convertible, # With equity warrants, 2 Floating-see note, # Sent-annual coupen. Pr. fixed av-offer prior; tess shows at re-offer level, # 3-min Libor +10ps, 10 3-min Libor +70ps, 10 Originally issued in Dec 109 at FF1-109. Plus 226 days accrused interest, # Punglisle with SFIHIGER. Plus 120 days accrused interest. # Over interpolated yield, a) Short 1st coupen

The Casch korona sector the third new issue in as many months, a Kčl.5bn two-year offering for the International Financing Corporation, the World Benk's private financing

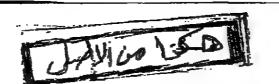
points over Treasuries, via arm. The World Bank and the European Bank for Reconstruc-tion and Development issued one-year deals in recent weeks; all three deals were led by ING become a leading player in this

A syndicate official said that the triple A rated bonds, which offer a hefty 11 per cent yield, saw good demand from the usual European retail buyers ern Europe funds, Asian and offshore US investors.

Day's Mon Accrued change % Jul 1 interest

ago. reported sales to money mar-	teed bonds yielding 240 basis World Bank's private financing	market. offshore US inves
WORLD BOND PRICES		
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kely 9.500 02/06 101.8200 = 9.21† 9.22 9.96	Coert Sett price Change High - Low Est, vol. Open int.	6 Up to 5 years (1) 198,48 0,22 198,04 1,69 7 Over 5 years (11) 187,68 0,55 198,98 1,70
Japan No 140 5.500 09/01 119.1817 -0.250 2.29 2.34 2.32 No 182 3.000 09/05 68.2642 -0.210 3.25 3.27 3.22	Sep 116.92 116.82 - 117.11 116.71 31945 59907	8 All atocics (12) 187.75 0.34 187.10 1.70
Netherlands 6.000 01/06 96,7600 -0,160 8.46 6.49 6.33	Dec - 116.07 0 485	Average genes radomption yields are shown above. Coupon Basillo Love 176-79
Spain 8.800 04/06 69.8900 +0.060 8.81 8.90 9.10	II ITALIAN GOVT. BOND (BTP) PUTURES OPTIONS (LIFTS) Lingsom 100hs of 100%	
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7,500 12/06 97-03 +1/32 7,91 7,99 8,03 9,000 10/06 107-17 +1/32 8,02 8,11 8,13	11650 1.88 1.84 1.09 2.27 11700 1.11 1.60 1.39 2.63	FT FIXED INTEREST INDICES
US Treasury 6.675 05/06 100-18 -15/32 6.79 6.90 6.66	11790 0.89 1.40 1.50 2.69	Jul 2 Jul 1 Jun 26 Jun 27 Jun 26 Yr ago
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CURRENCIES AND MONEY

Dollar reaches highest level since January 1994

By Philip Gawith

The dollar yesterday made the was the Swedish krona which long awaited breach of the psychologically important Y110 level, although analysts cautioned that more significant was cut to 5.9 per cent from 6.1 technical hurdles still lay per cent.

The state of the s emphatic, and the dollar spent much of the European trading session below Y110. It closed in London at Y110.140, from Y109.515. There was no particularly news development which sparked the latest leg of the dollar's advance. Against the D-Mark it finished at DML5270

from DM1.5285. Elsewhere, sterling remained a focus of market attention as it continued its onward march, It finished at DM2.3762, from DM2.3701. Against the dollar it was barely changed at \$1.5562,

The worst set of current account figures seen in the past year pushed the Austra-lian dollar lower. It finished at

around 78.3 US cents. in Europe the main moves lost ground to close at SKr4.39 against the D-Mark from SKr4.363 after the repo rate

The breach was hardly emphatic, and the dollar spent of caution about the outlook for the dollar, notwithstanding its rally above Y110. Some observers believe the US Administration does not favour

a stronger currency. Against this is the attitude of the Bank of Japan which is believed still to be strongly committed to a weaker yen.
Mr Michael Burke, analyst at
Citibank in London, said: "Will the US continue to play ball? There is a strong feeling that

the G-7 communique did not call for a stronger dollar because the US did not want it." He noted that Mr Robert Rubin, the US treasury secretary, had recently said the US was committed to a strong dol-

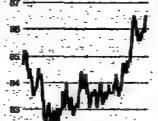
"I am not at all convinced that the Administration is going to parsue a stronger dollar policy."

lar rather than a stronger dol-

Mr Chris Turner, currency Mr Caris Furner, currency strategist at BZW in London, said Y110.5 was a significant technical level, and that profit-taking ahead of that point made an early breach unlikely. He said there were also various "straws in the wind", such as the pick-up in Japanese export volumes, that suggest "we should not get too bearish about the yen at these levels." He said he was "not looking for

Investors present a number of different reasons for buying sterling. These include:

a sustained shift above Y110."



* the very high yield it offers ten year gilts are currently yielding over 150 basis points more than the equivalent Ger-

* politics: the belief that the next election will not produce a hig change in economic policy, while a decisive Labour victory, which is expected, should actually reduce the political uncertainty that is

hanging over Sterling. The currency is also expected to bene-Mr Burke said be found this

reasoning "quite unconvincing", as it ignored the deterio-ration in the trade balance, and public finances, which augur poorly for sterling. He said a tax-cutting budget in November risked further aggravating the unbalanced state of the UK economic recovery, which is primarily consumer-driven. He predicted that "the possibility of a Labour government coinciding with a balance of payments cri-

sis is very high." Mr Burke said the current rally was "a window of sterling last a year."

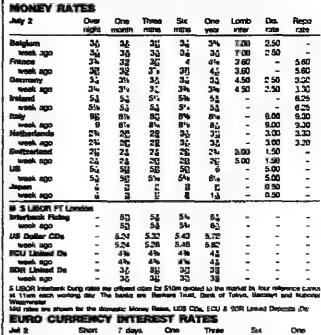
Mr Turner said the rally in the pound was the product of a succession of investors shifting from underweight or negative sterling holdings towards a more neutral position. US

wake of Mr Tony Blair's visit fit from a Labour government's to that country in April. They expected more positive attitude were later followed by Swiss and German investors. More

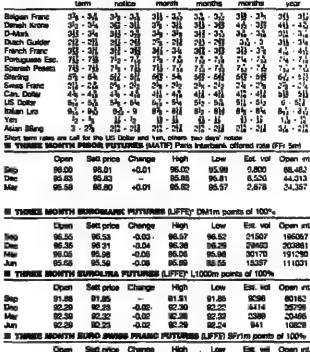
and equities.

He said that DM2.40 and
Y175 might well be as far as the pound would go. "We will probably see the final throes of sterling's rally over the next month or so."

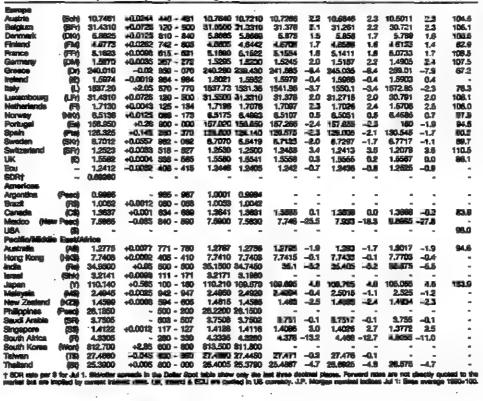
appeared too loose (although sterling's rally itself represents a tightening of policy) and that this was likely to show up in higher inflation and deteriorating trade balance, both of which could drag sterling



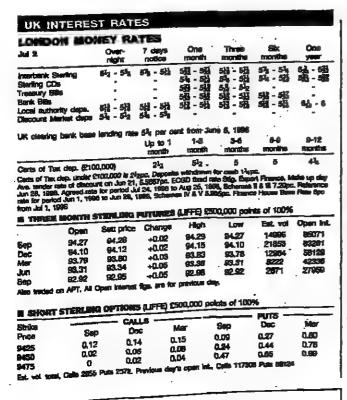
WORLD INTEREST RATES



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Morntly	Dritci	48.28	9.026		2.843 0.1	901 2306 909 979.5		4.152	100.	81.78	4.271	0.798	0.410	0.889	0.697	70.19	
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US	. (51)	28.54	1.247			1396	1,555	5.916	142.5	118.5	6.086	1,137	0.588	1,238	0.908	100.	0.7
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TENDER NOTICE UK GOVERNMENT

ECU TREASURY BILLS For tender on 9 July 1996

1. The Bank of England announces the issue by Her Majesty's Treasury of ECU 1,000 million nominal of UK Government ECU Treasury Bits, for tender on a bid-yield basis on Tuesday, 9 July 1996. An additional ECU 50 million nominal of Bills will be allotted directly to the Bank of England for the account of the Exchange Equalisation Account.

The ECU 1,000 million of Bills to be issued by tender will be dated 11 July 1996 and will be in the following maturities: ECU 200 million for maturity on 15 August 1998* ECU 500 million for maturity on 10 October 1996 ECU 300 million for maturity on 16 January 1997

 All tenders must be made on the printed application forms available on request from the Bank of England. Completed application forms must be lodged, by hand, at the Bank of England, Customer Settlement Services, Threadneedle Street, London not later than 10.30 a.m., London time, on Tuesday, 9 July 1996. Payment for Bills allotted will be due on Thursday, 11 July 1996.

4. Each tender at each yield for each maturity must be made on a separate application form for a minimum of ECU 500,000 nominal. Tenders above this minimum must be in multiples of ECU 100,000 nominal.

5. Tenders must be made on a yield basis (calculated on the basis of the actual number of days to maturity and a year of 360 days) rounded to two decimal places. Each application form must state the maturity date of the Bills for which application is made, the yield bid and the amount tendered for.

tendered for.

6. Notification will be despatched on the day of the tender to applicants whose tenders have been accepted in whole or in part. For applicants who have requested credit of Bills in global form to their account with ESO, Euroclear or CEDEL, Bills will be credited in the relevant systems against payment. For applicants who have requested definitive Bills, Bills will be available for collection at Customer Settlement Services, Bank of England after 1.30 p.m. on Thursday, 11 July 1996 provided cleared funds have been credited to the Bank of England's ECU Treesury Bills Account No. 59005516 with Lloyds Bank Ptc, Bank Relations, St George's House, PO Box 787, 6-8 Eastcheep, London EC3M 1LL. Definitive Bills will be available in amounts of ECU 10,000, ECU 50,000, ECU 100,000, ECU 50,000, ECU 5,000,000 and ECU 10,000,000 nominal.

7. Her Majesty's Treesury reserves the right to reject any or

7. Her Majesty's Treasury reserves the right to reject any or part of any tender.

8. The arrangements for the tender are set out in more detail in the Information Memorandum on the UK Government ECU Treasury Bill programme issued by the Bank of England on behalf of Her Majesty's Treasury on 28 March 1989, and in supplements to the Information Memorandum. All tenders will be subject to the provisions of the Information Memorandum (as supplemented) and to the provisions of this notice. 9. The ECU 50 million of Bills to be allotted directly to the

Bank of England for the account of the Exchange Equalisation Account will be for maturity on 16 January 1997. These Bills may be made available through sale and repurchase transactions to the market makers listed in the information Memorandum (as supplemented) in order to facilitate settlement.

10. Copies of the information Memorandum (and supplements to it) may be obtained at the Bank of England. UK Government ECU Treasury Bills are Issued under the Treasury Bills Act 1877, the National Loans Act 1968 and the Treasury Bills Regulations 1968 as amended.

"The asteristed maturity date is an ECU non-clearing day.

As stated in the information Memorandum Twould on 28 March 1989, in the event that any maturity date specified for any issue of Bills is not a business day, payment will be made on the succeeding business day without any interest or other sums in respect of the delay in payment. Bank of England 2 July 1996

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ETBA FINANCE FUNANCIAL AND ECONOMIC SERVICES S.A.

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(formerly GREEK EXPORTS S.A.) INVITATION

FOR EXPRESSIONS OF INTEREST IN PURCHASING THE ASSETS OF TULATE PATRACKI READY-MADE CLUTHES INDUSTRY OF YOUGS SA."

4472

Est. vol

ETBA FINANCE Financial & Economic Services S.A., established in Atheus at I Eranesthenous & Vas. Consumition Streets, in its capacity as special laquidator of the above company in accordance with Decision No. 499e/1996 of the Athens Court of Appeal by which "PIRANCI PATRANCI READY-MADE CLOTHES INDUSTRY OF VOLOS S.A." has been placed under special liquidation within the framework of article 46a of Law 1892/1990 as supplemented by article 14 of Law 2000/1991 and as today in force

INVITES

Interested parties to express their interest in purchasing the states of the company "PIRAIKI-PATRAIKI READY-MADE CLOTHES INDUSTRY OF VOLOS S.A." presently under spacial liquidation, by submitting, within twenty (20) days from today, a written non-binding expression of interest.

BUMMARY INFORMATION ON THE COMPANY UNDER LIQUIDATION

The company under liquidation owns a cutting and sewing factory for ready-made clothes. It is sincated on the Palain district within the city of Voice on a plot of land

clothers. It is sincated on the Palain district within the city of Votos on a plot of Isaal 10,307.61 m² in sere.

The factory building covers as area of 8,057.06 m³ (ground floor) and a first floor 2,495.52m² in area. The total volume of both floors is 44,896.76 cu.m. The building has a concrete frame with brick walls, glass windows and metal roofs.

The company's assets include the factory's unconstituted and annillary equipment as well as a plot of land at Dirmini in the Volor region 9,475.56 m² in area. OTHER DATA ON THE AUCTION FOR THE HIGHEST BIDDER

NOTICE OF FINAL DISTRIBUTION TO HOLDRES OF US SEASC. SNO ORIGINAL PRINCIPAL AMOUNT OF 18-1/21/2 BONDS DUE 2863 ISSUED BY MLH REALTY

NOTICE OF FINAL DESTERRITION TO HOLDERS OF US SEAS-SEO ORIGINAL PRINCIPAL AMOUNT OF 10-1/246 BONDS DUE 2003 ISSUED BY MLH REALTY INVESTMENTS III (A) N.V. INC., A WHOLLY OWNED SUBSIDIARY OF MLH REALTY INVESTMENTS III N.V.

On July 12, 1996, MLH Resity investments III N.V. ("NV3") through Morpes Guarany Trust Company of New York, the Jessor's paying spant (the "Paying Agent"), will naive available to the holders on much date of in 10-1/256 Bonds due 2038 with an original pranticular tool of USES, 562,500 (the "Bonds") a final payment of accrued for unspaid interest and the sentitled to member accrued attented of Seas of the Interest of Seas of the Interest and a final partial payment of principal on such Beads. Bash holder of the Bonds on such date will be sentitled to member accrued for attented of Seas OS (which represents all accrued for unspaid interest on the Bonds flyungh such date) and a partial payment of principal of \$82.41 for such \$750 original principal amount of the Bonds. This payment by the lister to the Bondsholders represent the final distribution received by the lister to the Bondsholders represent the final distribution. A company by the lister to the Bondsholders represent the final property and is making its final distribution to the holders of its Units in connection with McKritter III's liquidation. A description of the sale is provided in McBritter III's liquidation. A description of the sale is provided in McBritter III's liquidation. A description of the sale is provided in McBritter III's liquidation. A description of the sale is provided in McBritter III's liquidation. A description of the sale is provided in McBritter III's liquidation. A description of the sale is provided in McBritter III's liquidation. A description of the sale is provided in McBritter III on the principal and the litter for the principal of the final accional from the Paying Agent upon request. After October, 1995, (i) the final connobidated financial statements of NV3 and the litter for the principal for the prin

No further distributions, will be unde by MLERRY III, and because the Units represent the only meets owned by the laster and the only source from which the laster in required to make payments of interest and principal tender the teams of the Boach, the Loster will neake an further payments of interest or principal (of which \$5533.59 for each \$750 original principal amount will commer supped) on the Boach at any time only will gitted an After gaving effect to the figure destribution specified in this poton, investors who have hold share of INV3 and the Boach of the laster from the time that such shares and such Boach were respectively issued will have been entitled to receive aggregate each distributions in the amount of apparentments \$1,098 for each \$1.000 invested.

In order to receive the final payment on the Bonds, each Bondholder will be required to deliver to the Paying Agent, at 60 Victoria Embanisment, London ECvY OIP, England, each Bond with all remaining principal and interest coupons attached. Any questions concerning the Bonds or the final payment as contemplated havin should be discreted in the Paying Agent at the above address or to MCH Ready investments III (A) N.V. Inc., World Fibercal Center, South Tower, New York, New York 10080, Atts: Investors Services Department, Telephone. (212) 236-4939 or (800) 635-

MIM Realty investments III (A) R.V. Inc. Cornerly bases so M.H Realty Investments III (A) R.F.)

Dated: Rely 3, 1996

Academics urge radical reform of UK farm ministry | Dutch allow more

Modelling an independent UK food agency on the US Food and Drug Administration is not necessarily the answer to the problems highlighted by the beef crisis, according to four food policy specialists.

The opposition Labour party and the Consumers' Associa tion have called for an independent body on the lines of the FDA to take over for food policy and regulation from the Ministry of Agriculture, Fish-There has been widespread

placing food producers' interests of above those of consumers, contributing to a crisis of confidence in food safety.

In a discussion paper pub-lished by the Centre for Food Policy at Thames Valley University, the academics say radical reform of the ministry is needed more than ever in the light of the BSE crisis. But they say the proposal for

a US-style agency fails to appreciate the differences in government between the US and the UK. The FDA is part of the executive branch of the the academics find common

government and is fully accountable to Congress. But independent agencies in the UK are typically quangos, which "take responsibilities off ministers' shoulders and insulate policy-making from perlia-mentary scrutiny," they say. "The responsibility for food policy should rest fairly and squarely on the shoulders of government ministers and those ministers must be fully

accountable to parliament.

Food safety policy needs fewer

quangos not more of them."

ground with Mr Douglas Hogg, protection to the Department UK agriculture minister. He of Health, leaving a truncated said this week that there were very considerable advantages in having a minister responsible for the entire food chain". He added: "A free-standing agency would have no clout because there would be no ministerial accountability".

The experts, who include Mr Tim Lang, professor of food policy at Thames Valley, seek to stimulate "an informed debate" by setting out five options for reform: Transferring responsibility

for food quality and consumer

 Moving responsibility for food promotion and agricultural industries to the Department of Trade and Industry and creating a new food ministry. Both these options would offer stronger consumer protec-

tion, they say;
Abolishing the ministry, dividing its responsibilities among other ministries. This, apparently less favoured, option could leave the UK with Common Agricultural Policy

Cho Don openly display piles of ore they have collected in

front of their wood and thatch

his name only as Dung

explains how it works. "If the

ore contains over 30 per cent, the trucks come and they pay

us". This type of trade, known

as "high grading", is a source of some concern to Golden

ways of curbing illegal mining, more and more of the best ore

will be lost to the black mar-

ket, making the area less

Vietnamese newspapers have recently reported efforts to

stamp out illegal mining at

gold mines in other parts of

northern Vietnam, where ille-gal mining has reached "gold

rush" proportions. But here is little evidence that much is

being done in Cho Don; some

speculate that the local author-

ities have a stake in the trade.

Vietnam may not yet feel entirely comfortable about for-

attractive to foreign miners.

Until the authorities find

and hamper a co-ordinated food policy;
• Retaining the ministry but radically reforming it, with a re-ordering of priorities to put

DOG FIST Finally, leaving the minis-try untouched, but creating a separate food standards agency. This would have to be transparent and "not be subordinate to other agencies".

Modernising UK food policy.
Centre for Food Policy, Thomas Valley University, 32-38 Uxbridge Road, London W5 2BS. Tel: 0181 231 2065. Price:

MARKET REPORT

Copper price

gains trimmed

COPPER prices lost some of

their morning gains at the Lon-don Metal Exchange yesterday afternoon as Sumitomo devel-

opments continued to domi-

News that LME broker Rud-

olf Wolff had suspended three

staff at its Tokyo operation as

it conducted its own enquiry

into the Sumitomo affair

caused the market to wobble.

Prices had been bolstered by

an impressive 9,325-tonne stock

fall, as well as some construc-tive US economic data. The

eventual decline came in rela-

There is always the possibil-

ity of a 'Sumitomo shock', but

after options [declarations]

tomorrow the market could go to sleep for the rest of the

week, as New York will be closed on Thursday and Friday

for Independence Dayl", a

The three months price set-

tled at \$1,895 a tonne, still up \$35 from Monday. The cash/

three months premium wid-

tively light volume,

nate the market.

time for clean-up at zinc smelter

By Gordon Cramb in Amsterdam and Midd Talt In DVINNY

The Dutch authorities have agreed to give Pasminco of Australia more time before it has to halt dumping of poison-ous jarosite waste at its Budel zinc smelter in the south of the

country.

The decision comes as a further boost to the troubled A\$1.1bm Century mine project in northern Queensland, owned by the Anglo-Australian RTZ-CRA. Pasminco is to take about half Century's output of o-called "clean concentrates", but delays in getting the mine on stream had threatened to bring it up against a deadline set under the Netherlands' environmental laws.

Karlier this year, Pasminco won an extension to the storage licence for jarosite - a calclum-containing hazardous waste - until July 1998. After mid-1998, production of jarosite at the smelter was due to cease, as Pasminco converted to the use of concentrates sourced from Century.

Development of the Century mine has been held up because of the failure of RTZ-CRA and local aboriginal groups, who have a native title claim over the mine site and surrounding

area, to reach a settlement. On Sunday, the mining group said it was satisfied that local communities were narrowly in favour of the scheme although there still appears to be considerable division among aboriginal groups - and that it would continue with the

project in the light of Without such backing, it would have mothballed the plan, aimed at creating the world's biggest zinc mine. Other community leaders yesterday pledged to continue their fight against the project,

Yesterday, Mr David Stewart, Pasminco's chief executive, said his company had contacted the Dutch authorities and received support, in principle, for the jarosite extension. Pasminco will now make a formal application to extend the licence to July 1999. Century is seen as the only mine able to supply sufficient "clean con-

Budel produces some 200,000 tonnes of zinc a year, about per cent of world output. Its larosite is at present stored in nearby ponds, but heavy metals have caused extensive ground contamination.

The Dutch environment ministry said vesterday it had agreed to a request by the North Brahant provincial government for a temporary waiver of pollution standards so it could continue to use concentrate from other mines. Mr Henk de Kruijf, an official at the provincial capital 's-Herto-genbosch said procedures had not yet been concluded but the extension was likely to be for two years - more generous than the one year the company had expected. Pasminco will not, however, be allowed to

enlarge dumping capacity.

By the end of the year the first of the four ponds will be given a polyethylene base, and ground water is being pumped up and treated. But getting rid of the jarosite would require an investment of up to F1900m (US\$530m), which Mr De Kruiff said was "not reasonable for this operation" and not yet in use elsewhere in the world.

In arranging the extension North Brabant aimed to secure Mr Rob Borbidge, the

STEEL STORY OF THE ST

MARKO LANGER

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SE RECCONISED:

narrigg)

the 600 jobs at Budel. Queensland state premier, said yesterday that legislation to "guarantee" Century's tenure would be introduced into the state parliament next wee although he also said that this would "acknowledge native

Lead/zinc ore puts Bac Thai on the map

The Vietnamese province is attracting increasing foreign interest, writes Jeremy Grant

stone hills, dense jungle and rustic feel. Cho Don township in Vietnam's northern Bac Thai province seems an unlikely candidate for attracting foreigners with speculative dollars. The population of 8,000,

mostly ethnic minority Tay people, subsists on meagre earnings from farming and for-estry. Dogs and chickens mingle on the dusty road that cuts through the town. It was not until January that Cho Don was connected to the national electricity grid. Yet for one Australian-Cana-

dian company, this is familiar ground. Golden Tiger Resources, a mining concern based in Perth, has spent the last two years surveying a rugged area known as Na Tum not far from Cho Don in hills 150km north of Hanol, the capi-

The prize is access to one of Southeast Asia's largest, unex-plored zinc and lead deposits, thought to rival in size those in neighbouring Thailand. One of the big draws is that

the area has already been mined by foreigners. French colonialists mined and shipped zinc ore back home from a site near Na Turn at the turn of the century. A thousand years ear-lier, the Chinese dug and worked the first mines in the

COMMODITIES PRICES

BASE METALS



In the 30 years that followed the end of the Vietnam war in 1975, Vietnamese geologists mapped northern Vietnam and mineral-rich central provinces with Soviet and East European technological help. But lack of capital prevented the Hanoi government from taking things any further.

Ever since the government said in the early 1990s that it would open up mining to foreigners the data has been available to foreign companies.

Precious Metals continued

About a dozen foreign mining companies - mostly Australian - have dipped into exploration. But none has been able to do much beyond preliminary surveying in the absence of a legal framework for foreign mining.

That may be changing with the passage in March of Vietnam's long-awaited mining law. While it stops short of guaranteeing foreigners the right to mine what they find, mining experts say it is muchneeded first step.
Indeed, if Vietnam can clar-

ify aspects of the law - particularly whether foreigners must enter into joint ventures with state-owned Vietnamese companies - the next 12 months could see stalled projects finally moving ahead. Encouraged by its prelimi-

nary findings, in March Golden Tiger started drilling on a grassy slope overlooking a green patchwork of rice paddies. Picking the site was easy: the hillside is littered with boulders, blackened by lead and zinc ore. "Just to see a little of this in Australia is enough to get you excited. These days, there are more geologists that walk up this hill than buffalo," says Mr Alan Peerless, Golden Tiger's project geologist.

When not supervising dril-

GRAINS AND OIL SEEDS

ling operations, Mr Peerless uses a Russian military jeep to inspect potential sites elsewhere. Evenings are usually spent poring over rock sample and maps under naked light bulbs in a bare office, rented from the Cho Don people's

But there are obstacles ahead. One of the problems facing any miner here is that although the hills contain significant amounts of ore, no one site has yet yielded commer-cially viable amounts. Padaeng of Thailand and a company of defence are thought to be reaching the same conclusion on prospects adjacent to

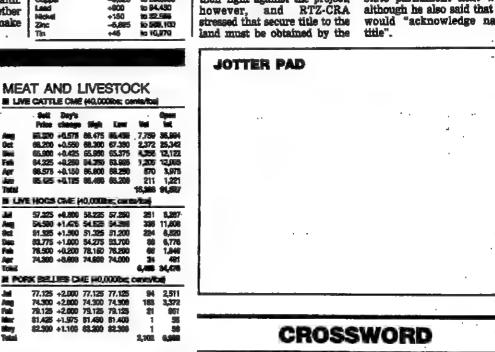
Golden Tiger has therefore suggested to both parties that all three forge a joint venture to create a bankable project, but a deal has yet to be struck. In the meantime, the occasional sound of explosives in the surrounding hills is a reminder of the need to move fast, both with an agreement on joint activities and for Hanoi to clarify blurred areas of its recent mining law.

Local people eager to supple ment their incomes are blasting the best ore out of the ground and selling it to traders who truck it to the Chinese border for sale. The trade is so blatant that many people in

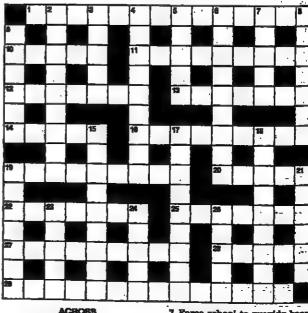
Compiled from Renters eign involvement in mining, but bringing in foreign expertise could be one way of ensur-ing that the Chinese are not, like a thousand years ago, the main beneficiaries of the country's northern mineral wealth. The question remains whether the incentive is there to make

trader said.

ened to \$40-\$50.



No.9,110 Set by DOGBERRY



ACROSS 1 Medic hanging grass in the Isle, so as to discomfit (14) 8 Fuel rates, say, on a cart 10 Article about expert's protective clothing (5)

11 Trade arrangement accepted by N. African umpire (9)

12 Motorists' clubs (7)

13 Colour's an active force in Morocco (7)

14 Mount many a member (5)

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the mnocent (9)

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19 in pain, is sybarite returning to former state (9)

to former state (9)

29 Or turning pale as ash? (5)
22 Wound again between jobs?
(7)
24 Notes for students produce 25 Delight with tendency to lose head (7) 27 Musicians with a lot of atories

superficial brilliance (6) 26 Little room round string (5) Musicians with a lot of stories of old plaything (9)

28 Lord of Belgian city (5)

28 Reliable source of therms to hothouse (3,6,5)

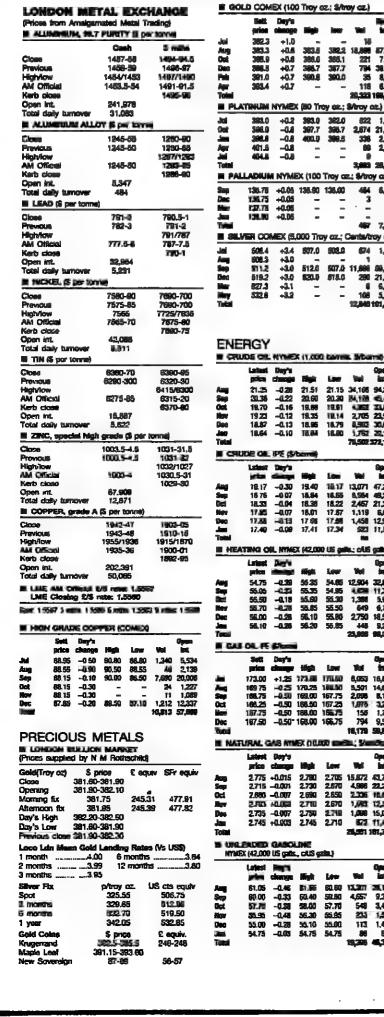
2 Alternatively order it in compiler's dark state (9)

3 Musical heroine doing a publium makes early start (5)

4 Nero fiddled, clasping girlone getting time off (9)

5 Sin City supplies turf to order (5)

6 Unconventional treatment for rare lurgi (9)



,	MINEAT LCE IF OF TERMS	SUP 15	MEAT AND LIVESTOCK II LIVE CATTLE CME (40,000bc; cents/ba)
	Sell Day's Deen	Set Day's Open .	Sell Day's Green
ist	prior change High Law. Yet int	price change light Love Vol., int.	Price change tright Low Vel fet
24 87,768	₩ 110.25 -0.40 110.00 110.00 5 225 ₩ 111.50 -0.51 111.90 111.90 5 416	Jul 1009 +27 1044 1807 126 2,716 1008 +18 1086 2067 1,144 2,52	Amp #1,570 +0,578 86,475 #1,458 7,759 36,004 Out 60,200 +0,550 88,300 67,380 2,372 25,342
7,438	New 113.50 -0.20 113.00 113.50 15 2,997	Dec 1044 48 1052 1943 775 43,233	65.900 +0.425 65.950 65.375 USB 12,122
39,500 8,435	he 115.45 -0.20 118.75 115.50 75 1,047 he 117.40 -0.30 117.79 117.40 45 228	Mar 1048 +4 1057 1046 8,586 41,158 May 1058 +4 1086 1857 770 20,473	Fm 64.325 +0.250 04.275 83.935 1,205 12,005 Apr 68.575 +0.150 86.800 88.290 570 3,975
6.080	May 118.55 -0.05 119.79 119.70 \$ 152	M 1067 +3 10,594	Am 15.05 + 1.115 86.469 66.200 211 1,221
95,000	Table 185 6,179	THE 18,942 175,942	THEN 15,000 PLOTS IN LIVE HOGS CIVE HO,000Es; carefular
1,336	M WHEAT CST (0.00000 white compared business and 471.75 -12.00 481.00 471.86 5.760 7.808	M COOCA CSCE (10 minute Manna)	M 57,225 +0.800 58,225 57,280 261 8,287
21,023	Sep 475.60 -13.60 467.75 475.00 12,616 32,470	Sep 1423 -13 1433 1415 1,651 33,296	Aug 54.500 +1.675 54.525 54.306 336 11,608
2,256 2,311	Dec 485.75 -11.79 465.00 465.00 12,900 28,232 New 462.75 -11.25 494.00 462.90 916 3,988	Bec 1450 —11 1456 1445 1,200 19,716 Mar 1472 —3 1476 1488 942 15,274	Set \$1.325 +1.590 51,325 51,200 224 6,529 Sec 53,775 +1.000 54,275 93,700 86 6,776
42	May 481.00 - 465.50 481.09 31 148	Many 1455 -6 1465 1486 SE \$554	Feb 76.500 +0.200 78.160 76.200 66 1,846
22,600) (22.)	Jul 424.00 -8.00 427.00 424.00 136 1,831 Total 32,867 74,808	Add 1406 +1 1466 1496 1 5,902 Tubul 10,000 30,002	Apr 74,200 +8,600 74,600 74,000 34 481 Total 6,406 34,676
6,794	ME MAZZE CBT (5,000 bu min; cents/58b bushel)	H COCCA (CCC) (SOFTWittens)	M PORK BELLIES CHE HO,000bs; cens/log
970	34 518.50 -20.00 539.50 518.00 14,911 14,579	Jul 1 Price Prov. Say	Jai 77.125 +2.000 77.125 77.125 94 2,511
12 106	Sep 405.50 -10.25 415.75 405.00 23,729 74,441 Nec 361.00 -8.00 371.00 362.50 59,775 174,610	Duly 1096,61 1098.30	Aug 74.300 +2.000 74.300 74.306 183 3,372 Feb 79.125 +2.000 79.125 78.125 21 951
7,882	Mar 268.25 -7.75 375.25 368.00 3,562 25,676 Mar 370.75 -7.25 374.00 370.50 521 4,860	S COFFEE LCE (\$/tores)	Mar 81,425 +1.575 81,450 81,400 1 55 Mary 82,300 +1,100 83,200 82,300 1 58
y oz.)	Jal 380.25 -8.25 373.00 380.00 1,874 5,980	M 1702 -29 1776 1791 E71 2,886	Total 2,102 0,980
1,797 1	Tetal 104,781 308,282	1677 -49 1750 1675 5,488 13,144 New 1982 -47 1723 1680 831 4,421	
59,250 21,608	Sep 104.25 (4 per tores)	Mer 1505 -36 (53) 1600 66 1,066	LONDON TRADED OPTIONS
6,373	New 106.45 HA.50 106.65 106.50 NB 744	May 1670 -42 1610 1800 40 78	LONDON TRADED OPTIONS Series price \$ torse Calls Page
5,500 01,000	Jan 106.65 - 106.75 186.65 7 188 Mar 109.90 -0.10 46	Telal 8,910 21,714	E ALIGHBURA
	May 112.25 +4.25 7	■ COPPER © CSCE 57,500 in; com/tail	(DB.7%) LIME Jul Dec Jul Dec
	THEN 65 1,804 IL SCYABEANS CET (5,500km min; center20k humbel)	Sep 117.85 -2.90 120.20 117.60 7.579 14,813	1400 64 148 - 32 1500 87 36 66
	# 773.59 -4.75 779.00 775.36 7.252 9.102	Net 113.80 -3.10 115.80 113.10 929 5,005 Net 111.50 -2.95 114.00 118.55 241 1,863	1800 46 136 122
-	Aug 771.25 -16 781.00 770.90 6,655 29,765	May 110.75 -2.90 110.75 110.75 104 309	(Grade A) UME JAI Dec Jibl Dec
pen .	Sup 755.50 -0.75 761.00 755.00 1,737 10,885 New 743.00 -11,75 782.00 742.00 35,763 101,705	Ad 120.05 -3.00 112.50 112.50 30 130 Trigal 1,202 28,416	1800 153 201 0 114
int 14.276	75L25 -10 755.50 75L00 336 7,502 757.60 -10.75 760.00 757.00 227 4.271	III COFFEE (ICO) (LIS centa/pound)	1900 84 152 1 183 2000 113 67 221
6.412	Total 54,646 172,618	Art 1 Pres. day Comp. dally	M GOFFEE LOE Sup Nov Sup Hor
23,956	N SOYABEAN OIL CET (60,000bit cents/fb)	Comp. daily	1500 508 294 15 42 1500 209 258 32 50
00,036 21,125	2.15 -0.2 25.25 25.13 8,057 8,120 2.39 -0.28 25.42 25.26 12,235 22,230	III WASTE BOOMS LOS SASTRA	1800 178 225 46 78
72,157	\$40 25.57 -4.28 25.65 25.45 12.173 041 25.67 -4.28 25.88 25.84 1,052 7,074	Aug. 381.5 +2.4 380.0 378.5 1,085 7,867	
	Dec 28.01 43.20 38.17 25.97 7,264 26,276	Oct 251.6 Q.A 250.0 251.0 504 7,928	950 140 126 7 35 975 176 110 11 41 1000 96 95 16 51
Option let	Jen 26.13 -0.26 26.30 26.10 mm 2,656 Tabal 21.260 81,855	Sec 337.5 -0.8 310.1 337.5 188 3.836 Sec 382.2 - 382.5 331.8 41 4.231	IL GRENT CRUDE IPE Aug Sep Aug Sep
7,224	BOYALLEUN MEAL COST (100 soos S/101)	May 330.4 +0.2 330.5 330.0 26 2,221 Aug 388.9 +0.5 328.5 328.0 21 775	1960 - 8 -
19,265 21,351	242.9 -3.4 245.7 241.0 4,851 12,450	Tubel 1,816 27,422	1950 54 50
E,660	240.1 ~3.4 243.0 238.5 8,195 22,418 Sep 258.4 ~3.4 246.7 238.3 2,201 10,548	SKGAR 'YT' CSCE (112,000cs; continue)	LONDON SPOT MARKETS
2,950 1,510	0et 234.5 -2.8 235.3 234.8 881 5,732. 0ec 233.93 235.6 233.5 7,907 25,146	Oct 11.35 +0.95 (1.42 11.22 5,026 50,862 Mar 11.05 +0.09 11.07 10.92 2,179 34,330	E CRUSE OF SECT MARKETS
	Am 204.1 -4.7 236.0 234.9 EW 2,001	19,75 +0.04 19,79 19,55 696 13,487	Dubal \$17.56-7.77 -0.155
Cours	POTATORE U.E Prome	Oct 10:30 -0:04 10:34 10:30 \$5 5.045	Brent Bland (chains) \$19.46-9.51 -0.065
int .	Nov 85.0	War 19.16 -0.86 6 531 Total 21,980 134,678	Brant Bland (Aug) \$19.24-9.26 -0.08 W.T.L \$21.30-1.31x 40.066
2,851	Apr 119.3 +1.0 118.5 115.0 98 1,229	M COTTON NYCE (50,000bs; centa/bs)	OIL PRODUCTS NWEprompt delivery CIF (terms)
5,926	131.8 3	Left 70.80 -0.30 70.95 70.15 103 537 Out 72.37 +0.02 72.80 72.15 1,338 7,740	Premium Gasolina \$206-208 +1,5 Gas Oil \$176-177 +1.5
6,788 8,521	Jan 1925 Tricker 90 1,282	Dec 73,12 -0.16 73.80 73.00 8,325 83,544	Heavy Fuel Oil \$87-89 48
9,254	E PRESENT (ESTEX) LCS \$10/Index paint)	Mar: 74.43 -0.17 75.29 74.40 1,357 7,097 Mary 75.20 -0.40 75.80 75.15 461 5,086	Napishe \$179-182 +1.5 Jet fuel \$197-198 -1.5
	Md 1122 +12 1133 1125 102 1,571 Aug 1127 +7 1130 1129 67 325	Jai 75.07 -0.38 76.70 78.05 427 3.544 Tribal 19.282 90.002	Diesel B170-180 41
Open	Sup 1165 +16 1165 1155 15 25	E ORANGE JUICE NVIS (16,000) to complete	
int a see	9ct 1232 +7 1235 1232 8 1,448 Jan 1256 +11 1255 1250 6 285	# 15.25 +1.85 125.75 124.16 221 1,899	Bacton (Aug) 12.50-13.00 +0.37 Potroleum Argus. Tel. Landan (0171) 356 8732
6,856 4,977	Apr 1223 hZL 115 Tead 199 4,349	Sep 122.40 +1.40 123.25 121.20 963 10,673 Sep 114.50 +1.70 119.50 110.00 105 2,276	I OTHER
8,167 3,236	Class Prior	Jan 117.20 +1.65 117.25 176.00 227 3,785	Gold (per troy co) \$201.76 -0.35 Silver (per troy co) 508.50c
1,776	3FI 1176 1182	120,00 +0.75 120,00 120,00 10 193	Platinum (per troy oz.) \$391.40 -1.65
9,537 8,885		Tetal 1,382 19,276	Pelladium (per troy cz.) \$133.25 (0.50) Copper 95.0c -2.0
Six)	PATURES DATA		Lead (US prod.) 45,00c
District Co.	All fatures date supplied by CMS.		Tin (Kusin Lumpur) 15.41r -0.11 Tin (New York) 284.50 -1.00
14770 31.770			101.73p +2.07
2,270	Minor Metals		Shoop (two weight) 111.52p -1.13* Pige (two weight) 122.83p +5,47*
0,014 2,355		VOLUME DATA	Lon. day sugar (rest) \$309.70 +4.20
5,054	European free market, from Metal Bulletin, \$ per ib in warehouse, unless otherwise stated	Open interest and Volume data shown for	Lon. day sugar (we) \$389.00 -1.00 Barley (Eng. leed) Ling
1,45 1,75	(test week's in brackets, where changed). And- mony: 90.6%, \$ per tonne, 2,800-2,900, \$6-	contracts traded on COMBK, NYMEX, CET. NYCE, CME, CSCE and IPE Caude Oil are one	Maize (US NoS Yellow) Ling
	mutte min. 99.99%, tonne lota 3.20-3.70.	day in arrears. Volume & Open Interest totals are for all traded months.	Wheat (US Dark North) Usic Rubber (Augl P \$5.50p
	Cadmiume min. 99.95%, 85-95 (85-90) cents a pound. Cobelt: MS free market, 99.8%, 24.00-		Rubber (Sep)♥ BLBOp
iptere int	25.00 (25.30-26.00); 99.3%, 22.50-23.50 (21.50-23.30). Security min. 39.57%, 5 pc; 76	INDICES	Rubber (KL RSS No1) 360,00m -4,00 Coconut Oil (Philips 850,0w +10,0
E 1700	ib flask, 162-175. Molybdenums drummed	Jul 2 Jul 1 month and year ago	Palm Cil (Melay.)5 \$482.52 -T.5
9,308 3,408	molybdic coude, 3.36-3.55. Setentum: min 99.5%, 3.05-4.40 (3.15-4.36). Tungsten cru:	2003.8 2008.4 2000.A 2272.7	Copre (Phil)5 \$538.0w Soyabeans (US) 214.0 +1.0
1,551	standard min. 85%, S per tonne unit (10kg) WO., cif. 52-62. Vanaditan: min. 98%, cif.	In CRS Futures (Sens: 1967=100)	Cotton Outlook 'A' Index 79.65c
1,475 588	3.00-3.10. Uranker: Nuestro escharge value,	249.61 248.65 rm ns	Wooliops (64e Super) 434p E per torre unless otherwise stated, p personig, o certails.
S,356	15.00	II GBCS Space (Bessex 1970m100)	Pringpling. At Melaysian contacting. x Aug. to Jul/Aug. 2 Jul/
		Jul 1 Jun 28 manth ago year ago 207.52 206.52 206.52 174.48	clam. * Change on week. (Based on 4,675 hand of pigs
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BRENT CRUDE PE Aug ONDON SPOT MARKETS \$18.94-0.26 OIL PRODUCTS NW leavy Fuel Oil lephibe et fuel S179-182 \$170-10D 12.50-13.00 (D171) 358 8792 iaki şoer troy azişî Tiver şoer tray azişî -1.66 -0.50 ospper sed (US pred.) In (Kusla Lumpur) in (New York) 95.0c 45.00c 15.4 tr 294.50 -0.11 -1.00 the time meight) +2.07 -1,13° +5,47° 111.52p 122.93p on. day sugar (real) on. day sugar (we) barley (Eng. leed) Asize (US No3 Yello \$309.70 Ung Ung Ung heet IUS Dark North ubber (Aug)® 95,50p 86,50p coconut Oil (Phips Nam Oil (Malay.)§ Xxpra (Phil)§ ens (US)

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FT MANAGED FUNDS SERVICE Offshore Funds ● FT Cityline Unit Trust Prices are available over the telephone. Cell the FT Cityline Help Deak on (+44 171) 873 4978 for more detail **OFFSHORE** AND OVERSEAS 7.84 -0.62 7.84 -0.62 50 -0.62 41 -0.61 11.30 -0.67 7.27 -0.65 41 -0.67 +0.514 6.801 +0.803 3.805 +0.805 2.497 +0.007 1.862 +0.007 1.862 +0.007 2.518 +0.007 2.518 +0.007 2.518 +0.007 4.805 +0.00 BERMUDA (SIB RECOGNISED) bir beine bellen Berling ... Webs Chrys Piles Piles .. St's 870.41 10 57 40 15 17 13 12 40 10 15 17 13 12 40 10 15 16 17 13 17 9 22 2040230 9 223 843 1000 +0.013 2.10 +0.013 2.10 +0.022 2.10 +0.022 1.40 +0.022 1.40 +0.024 1.40 +0.034 1.40 +0.034 1.40 +0.038 8.20 +0.008 8.20 +00' 4'8 +00' 2'2 - 3'' +0.00 4.00 +0.01 4.00 +0.02 4.00 +0.07 4.00 +0.07 4.00 +0.07 4.00 +0.07 4.00 mt (CI) LM 16.72 +0.73 1.50 14.87 — 2.73 24.25 +0.85 7.71 16.27 +0.86 — 21.27 +0.46 — 14.80 +0.56 — 1.40 -0.05 0.50 14 \$1000 0.500 4.500 0.50 \$2.00 0.500 4.500 0.50 \$2.00 1.00 0.50 0.50 \$1.00 1.00 0.50 0.50 \$1.00 1.00 0.60 0.50 \$2.51 2.00 0.00 0.51 \$2.51 2.00 0.50 0.51 \$2.52 0.500 0.50 1.50 \$2.50 0.500 0.50 1.50 IRELAND berton Sinhal Fondo Ltd (1200) .. 7 1025* 10540 -212 *** 3 NOTE 10541 -273 775 BERMUDA REGULATEDK**) **JERSEY** DN-150.100400.140 Gertis.001 B7-602.2 FN-100.2-1 FN-100.2-1 GESTS.570 SESO.046 FN-100.06 ST-20.044 \$15.11 Y3500 Figure Communy June de Primer Spille (1997) esent (lett) Ltd Other Burthous Dit Inc., Children, 12 Other European Dit Ann. Spirit Sk.71 Other European Dit Inc., 607 Ad. Calor European Dit Ann. 607 AS. 0.010 +0.000 L05 0.010 +0.00 L05 12.01 +0.00 0.00 13.01 +0.00 0.00 11.40 -0.01 7.70 11.20 -0.01 0.00 11.00 +0.00 5.55 71.00 +0.00 5.55 \$1.230 \$1.230 \$1.5043 \$1.503 \$0.6660 \$1.500 +455 575 -- 175 -- 176 +0.06 -+0.16 -+0.16 -+0.17 -+0.17 -+0.10 0.00 WHEN THE Barrania Pinada Mayerit (Beerrang) (16)
PO Ina Jell, St Hair Pill, Savenay
Shindler Date Accom. Str.34 98.55 +0.10
Shindler Date Accom. Str.34 98.56 +0.00 24
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Shindler Stp Date 2 16.64 15.56 +0.00 33 MARKETS CLOSE, THE #17.00 17.520 #28.77 27.663 et Co Ltd How Silk Road Ford GARDEN BRASSERIES ANZ Bingust Co (Boormay) Lim Empressionate Life (1990) 17.50 Apolio investment Life (1990) 17.50 Life MIN 127 -031 038 MIN 124 -041 038 MIN 124 -048 248 MIN 124 -048 248 MIN 124 -048 0 STILL TRADE. Arab Back Pend Menogers (Bearing) Ltd. 20 Interdigal Penj Ltd 170.3 ... 4.22 GUERNSEY #1.4 11.4 = (SIB RECOGNISED) Cultier Intil Mings (mill) List
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Listen to midnight in the Garden Brasserie at any of our 18 Orlest Balanced Fund Plo 1007 hotels up and down the UK. Welcoming news indeed, All breedingers (Banagers (Garranes) Ltd
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AFT International Point Air Subjects Information Point Air Subjects Information Point Air Subjects Information Point Air Subjects Information Informa Per Time Amort Mammagamant (trahad) Life (Schol Portion) — 30.00 - 4.01 Augustion Per Hallo. — 30.44 - 4.12 Per Hard Portion — 50.44 - 4.12 Per Hard Portion — 50.35 - 4.15 Augustion Per Hard Portion — 50.55 - 4.15 Augustion Per Hard Portion — 50.55 - 4.15 Augustion Per Hard Portion — 50.45 Augustion — 50.45 Aug 20 4460 59 50 \$10 2251 \$10 11 \$10 2718 \$2,74 \$10 0687 \$3 90 | Chemical Iroland Panel Administrators Link | Chemical Iroland Panel Administrators Link | Cyrp Red Arterium No. | Cyrp Red Arterium No. | Cyrp No. | Cyr Then interrupt — 6
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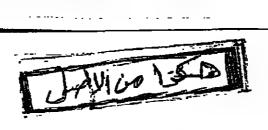
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STANDARD MANAGEMENT OF THE STANDARD MANAGE

Equities struggle to stay ahead on the day

By Steve Thompson, UK Stock Market Editor

Some worrying US economic data on home sales promoted a bout of profit-taking on Wall Street and unnerved a UK equity market anxious for more good news after the gains recorded during the previous two sessions.

Such was the worry in London about the home sales data, which hit the market just as the US Federal Reserve's Open Market Committee was meeting to discuss monetary policy, that the FT-SE 100 eventually finished with only a miniscule gain, after promising

The Footsie ended just 0.1 ahead at 3,725.7. Second-line issues spent the session chasing the leaders, but the FT-SE Mid 250 index still managed to outperform the leading index, finishing 5.6 firmer at 4,376.0. The Mid 250's outperformance was said by dealers to have reflected a late burst of takeover speculation in some utilities stocks,

on talk of an imminent bld. Specialists insisted that Southern Electric, which lost out in its attempt to take over Southern Water, was a much more likely takeover target. And there was no shortage of bid rumours in the

notably East Midland Electricity,

which raced up just before the close

water stocks, where Wessex and into pockets of selling pressure that ground.

There was also keen takeover speculation in other areas of the market, with Yorkshire-Tyne Tees Television sharply higher amid talk that Granada was about to pounce. The poor closing performance was

in stark contrast to the bullish feeling around the market at the outset of trading. Wall Street's 75-point jump overnight, in spite of a marked reluctance by US Treasury bonds to move ahead, gave London's marketmakers every reason to lift their opening quotations. The Footsie kicked off some 18

Thames Water continued to gain gradually eroded share prices. Talk around the City's dealing desks suggested that the market was not wholly convinced about the health of Mr Boris Yeltsin, who is campaigning for the presidency of Russia and whose potential defeat was seen as one of the more worrying

> But it was the news on US home sales, which came in much higher than expected, that reminded London of the worries of an increase in US interest rates.

international factors.

good run. Carlton slipped 3 to

Zourca continued its rucent

rise in early trading but fell

later in response to a sell-off on

The early move reflected

renewed takeover speculation

and growing optimism about

There was further support

from Standard & Poor's, the US

credit rating agency, which raised the senior debt rating of

subsidiary Zeneca Wilmington

to AA- from A+. S&P said the

rating upgrades reflected sig-

nificant improvements over

the past three years in

Zeneca's business risk and

Previously Zeneca has been

seen as a target for Roche, of Switzerland, but Glaxo Well-

come has been considered a

plausible bidder. News that

Zeneca's Arimidex unti-breast

cancer drug was approved for

use in Germany, Austria and

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the drug maker's prospects.

Wall Street

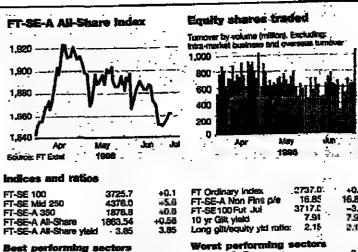
511p and Granada 11 to 849p.

There was evidence that many more traders and fund managers were in the market yesterday and points higher but immediately ran turnover was up sharply from

recent levels. Tradepoint, the orderdriven trading system, said that it had enjoyed its second-higgest

turnover. Volume at 6pm was 871.8m shares, a figure which included Argyll's buyback of 60m shares, or 5.2 per cent of its issued capital. The total was also enhanced by the placing by SBC Warburg of 40m shares in Jarvis Hotels.

Senior dealers were split over the short term outlook for the market. One said that the prospects for big bids were shrinking with every day, as the election approached, while others maintained that the "feel-good factor" was increasingly



Wimpey out of step

George Wimpey stood out in an otherwise bubbling housebuilding sector, sliding more than 7 per cent after a profits downgrade from SBC Warburg. The broker, a long-term bear of the stock, was said to have cut back by £4m to £37m for this year and to have urged clients to switch into Barratt Developments.

Shares in Wimpey surrendered 12 to 147p in above average turnover of 2.9m, while Barratt edged ahead 2 to 261n.

The general run of housing stocks stayed on the upside. underpinned by a reiterated buy recommendation for Taylor Woodrow from Charterhouse Tilney and good results from South of England builder Berkeley.

Forecasts for house price growth range up to 6 per cent per annum for the next few vears, and it is clear that the outlook for the builders' gross margins is greatly improved.

Also hovering in the background are persistent whispers about another imminent ¼ percentage point reduction for base rates.

Berkeley hardened 3 to 617p, Bryant Group put on 1% at 125p and Redrow Group moved forward 11/4 to 134p. Taylow Woodrow, seen as the one international stock in the sector, gained 5 at 165p in turnover of 1.4m shares.

Selected water stocks rose as news of a big stake sale by Southern, of the US, increased speculation about another bid in the sector.

Southern sold a 25 per cent stake in South Western Electricity to raise £121.5m. It has also sold the shares lo National Grid which were allotted to SWEB. And while it still retains 75 per cent of SWEB, it has a cash nile which is earmarked for investment in the UK or Europe.

One obvious target, because of the geographical overlap with SWEB, would be Wessex Water, which was up 7% earlier in the session before closing 4½ ahead at 354p.

However, Southern is quite capable of swallowing a bigger fish and Thames Water is also seen to be an eligible candidate, as is Southern Electric. Thames finished 8 stronger at 577p and Southern Electric 2

Just before the close of dealing, East Midland Electricity which published its report and accounts yesterday - jumped 14 to 543p.

Orange came off sharply, as investors shied away from the stock following its latest new subscriber numbers. These were said to compare flatly with recent figures from mobile phones rival Vodafone. The shares turned in the

day's worst Footsie performance, retreating 5% to 219%p. The figures tended to confirm the toughness of the UK marketplace, and the switching into Vodafone was said to reflect the latter's international operations where subscription growth remains rapid. Vodafone improved 3

Not all brokers were disappointed with the Orange state-

ment. "The group's subscriber growth remains on target, and its churn rate - subscriber withdrawals - is the lowest in the sector," said one leading

telecoms analyst. Securicor gained 4 to 279p for a two-day advance of 19 following a recent "undervalued" note from ABN Amro Hoare Govett. The broker described the stock as "cracking value".

Yorkshire-Tyne Tees Television jumped 75 to 1238p. The stock has been highlighted as a potential takeover target in the light of final approval for the Broadcasting Bill. Royal assent is expected at the end of the week and Granada is seen as the most likely aggressor.

Carlton is also reckoned to be running its ready reckoner over Yorkshire as well as showing some interest in BTV. Scottlsh Television has also been cited as easy prey. Scottish rose 8 to 649p but HTV was flat at 329p following a

FINANCIAL TIMES EQUITY INDICES

	Jul 2	Jul 1	Jun 28	Jun 27	Jun 26	Yr ago	"High	"Low
Ondinary Share	2737.0	2736.8	2729.7	2714.1	2720.7	2514.0	2865.2	2906.7
Ord. div. yield	4,08	4.06	4,09	4.11	4.10	4.24	4.12	3.76
P/E ratio net	16,16	16.18	16.12	16.04	16.07	15.71	17.25	15.96
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Italy also buoyed sentiment. Zeneca lost 6 to 1434p. Glaxo closed 7 off at 862p. Oil major BP improved 8 to 578%p in the wake of broker

nendations Argyll Group closed off 3 at 346p, after the company acquired 5.25 per cent of its capital at 346p a share. The buyback, which was carried out by BZW and Panmure Cordon, hoisted turnover to 122m shares. It was said to be in line with targets set by analysts in May when the plans were first

HSBC moved ahead 15 to 1028p after HSBC James Capel upgraded its 1996 profits forecast by 7.2 per cent and its earnings per share estimate by 10.2 per cent. Capel also moved its recommendation to buy from hold. The upgrade reflects a more positive outlook for margins and loan demand, especially in Hong Kong, the group's improving credit quality and continued control of

Abbey National pushed 5 higher to 556p after Williams de Broë and Charterhouse Tilney responded to encouraging news about the housing market by recommending the shares in the hanking group.

British Airways weakened as the regulatory spotlight was given additional focus by plans for UK-US and European Union probes into big airline link-ups. Shares in BA, which recently announced an alliance with American Airlines, shed 5 to 544p. The group announces June traffic figures today.

Rumours that the 22bn Nimrod contract could be decided later this week put some life into defence stocks.

British Aerospace, hot favourite to win the Ministry of Defence contract, closed allsquare at 976p, with the shares said to be "consolidating" just below the £10 mark. Rolls-Royce put on a penny at 227p and Cobban added 12 at 648p. Vickers gained 8 at 252p.

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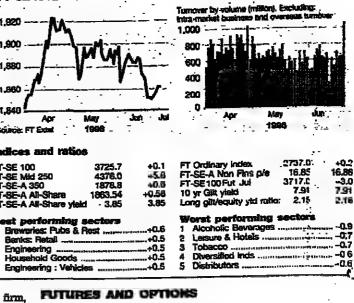
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Leading brewers were firm, helped by whispers of good news to come from Bass, which organising a two-day analysts' trip. Brokers will be taken round the group's pubs

and leisure operations. The shares added 51/4 at 823p. Southnews, the newspaper group, gained 17 to 374p, signalling a break through a 12month range. The company has had broker support since its last set of final figures, when it revealed above average

advertising growth. Speech software group Vocalis rose to 1180 in first-day dealines. The shares were floated at 95p.

MARKET REPORTERS Peter John, Jeffrey Brown



FT-SE 100 INDEX PUTURES (LIFFE) 225 per full index point

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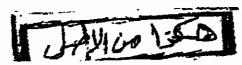
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	•	

construction sector.

The general index dropped

13.34 to 909.50, but some ana-

lysts described the fall as

unjustified. They noted that

economic fundamentals were

sound and said that any

changes in economic policy

tech warnings, rate concerns

weaker at 5,715.94, the Stan-

dard & Poor's 500 had shed 2.00

to 673.88 and the American

Stock Exchange composite was

off 0.16 at 580.07. Volume on

the New York Stock Exchange

or 3 per cent at \$50% after

reporting record second quar-

dential Securities cut its rating

on the company, and Procter & Gamble lost \$1% at \$88%.

Advancing issues among the

Dow 30 stocks included Boeing, which added \$1% at \$91%, and

Toronto outperformed Wall

Street at midsession as the

market sought to catch up

day, when Canadian markets

The TSE-300 composite index

Analysis noted that equities

were helped by a growing con-

viction that the US Federal Reserve was unlikely to raise

interest rates at the two-day

FOMC meeting which began

high-technology stocks.

cents to C\$10.05.

tial offer price of C\$18.

were closed for a holiday.

just 27.1m shares.

with New York's gains on Mon-

Exxon, up \$% at \$88%.

Morgan Stanley added \$1%

came to 222m shares.

Wall Street

Technology shares gave up ground at midsession, following a spate of profit warnings from some of the sector's leading companies, writes Lisa unsten in New York.

In early afternoon trading, the Nasdaq composite, which has about a 40 per cent techoff at 1,193.28 and the Pacific Stock Exchange technology index lost 0.7 per cent.

The most prominent profits warning came from Digital Equipment, which said that it expected fourth-quarter earnings to be below analysts' estimates, and revenues to be lower than those of the comparable period. Digital also announced that the head of its computer systems division would resign. Shares in the ompany slid \$5, or 11 per cent,

Borland International, which makes computer software, said that it expected to make a loss of 53 to 56 cents a share in the first quarter and announced the resignation of its chief executive. Shares in that company were down \$1%, or 14 per

Other software companies to issue warnings included Wonderware, off \$3% or 20 per cent at \$154, Sybase which fell \$14 or 8 per cent to \$18%, and Segus Software, which shed \$12% or 48 per cent to \$11%.

Interest rate concerns held sway over other areas of the market as the Federal Reserve's Open Market Committee began a two-day meeting to consider monetary policy. New data which showed that rising interest rates had not slowed activity in the housing sector caused speculation that the Fed might raise rates at some time during the summer. This sent the bond market lower in early trading. At 1 pm, the Dow Jones

Buenos Aires weaker

Buenos Aires edged lower at midsession on disappointment over June tax revenue figures and controversy surrounding Mr Domingo Cavallo, the economy minister. Analysts noted treasury secretary, had conceded that the government was falling short of revenue goals set by the IMF.

They said another drag on the market was imposed by reports of differences between

Carlos Menem after an unexpected rise in unemployment, a defeat in Buenos Aires mayoral elections, and comments by the economy minister on corruption. The Merval index shed

MEXICO CITY turned back after a firmer start to trade and was weaker by midsession. with investors expecting higher interest rates at the auction of primary Cetes later in the day. The IPC index was Mr Cavallo and President down 2.24 points at 3,175.41.

S Africa regains confidence

fidently higher as gold shares defied a slumbering metal price and industrials were spurred by overnight gains on Wall Street.

The overall index rose 46.5

to 6,891.4, industrials added 52.0 at 8,190.5 and golds picked up 50.1 to 1,771.6. Analysts said that the undertone was firm and that all indices could rise further in coming days, particularly the golds sector, expecting upheat second-quarter results from

Among the most active gold

the gold mining sector.

Johannesburg moved con- counters, Kloof Gold Mining appreciated E3.50 to R44.50. while Free State Consolidated Gold Mines collected R2 to

close at R42.75. De Beers, the diamond giant, was actively traded and finished 50 cents higher at R147.50 after a steady tug-of-war between buyers and

American Gold Anglo surged R18.50, or 4.9 per cent, to R396, while Rustenburg Platinum Holdings, parent company of the strike-bound Rustenburg Platinum Mines, edged up 50 cents to R68.

Shares fall on CS Holding soars 12% on major restructuring

CS Holding put in a powerful performance in ZURICH after the bank announced a major restructuring, including a new name, a new CEO and the divestment of its non-core business. CS Holding jumped SFr14.50, or 12.1 per cent, to SFr134.50, while Elektrowatt. in which CS said it wanted to

sell its 44.9 per cent stake, gained SFr24 to SFr483. The planned sale of industrial activities by CS also gave a boost to UBS as investors had long expected the bank to take a similar step. UBS bearer shares put on SFr40 to SFr1,270 while SBC, the third of the big three Swiss banks, picked up SFT1.75 to SFT3/5.76.

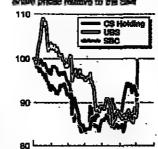
ter earnings, due mostly to investment banking activity.

On the Dow, Minnesota Mining & Manufacturing slid \$2\%, or 3 per cent, to \$69% after Pru-Shares of Motor Columbus, in which UBS has a stake, climbed SFr35 to SFr2,495 on the view that it was a potential partner for Elektrowatt.

Taking the opposite tack, Swiss Re, whose current CEO, Mr Lukas Muehlemann, will become the new Credit Suisse Group's chief executive officer, lost SFr5 at SFr1.265, after a low of SFr1,250, in response to his planned departure. Activity in the banking sec-

tor took the broad market to an all-time high as the SMI index rose 22.6 to 3.750.8. However, Mr Ian McEwen at Lehman Brothers said that the market appeared to be taking a

Share prices relative to the SM



'flier" by pushing the CS Holding share price up so sharply, since the restructuring plan did not appear particularly rad-ical. He thought that the Swiss banking sector was beginning to look overvalued, but did not rule out the possibility that the shares had potential for a fur-

FRANKFURT's record peak was all too fragile. The Dax index came back from a morn-ing high of 2,586.53 to an Ibisindicated 2,565.32, down 8.12, as sentiment soured on Wall Street. Turnover was DM7.4bn. The shock of the day, however, came outside the Dax 30. Jungheinrich said that it did

not expect an improvement in

operating earnings this year, and that its net profits would be hit by restructuring costs. Mr Stefan Mülheim, at Dillon Read, said that he had cut his earnings for the forklift maker from DM14.50, to a DM9.50 to DM10 range for the current year, and from DM18, to DM14 for 1997. The shares, ex divi-

per cent, to DM228. There was a ripple in the Dax 30 as Linde fell DM10 to DM973. However, said Mr Mülheim, the forklift market leader was well diversified, whereas Junheinrich had been

less successful on that scora.

PARIS worried that the surge in US home sales could prompt the FOMC to raise US interest rates. The CAC-40 index moved from strength to weakness, finishing 6.95 lower at 2,111.80 in turnover of FFr4.48hn.

Dassault Aviation had second thoughts. Up 8.6 per cent on Monday ahead of the confirmation of the merger plan with Aerospatiale, the shares turned tail and fell FFr64, or 7.4 per cent. to FF1804. However, Cap. Gemini, selling its 36 per cent stake in Cisi, rose another FFr6.50 to FFr214 in 367,000 shares dealt for a two-day gain of 7 per cent.

Meanwhile, the drop in

FT-SE Actuaries Share Indices THE EUROPEAN SERIES 10.39 11.90 12.00 13.00 14.00 15.00 Close FT-SE Europeack 100 1709.22 1709.50 1709.20 1707.92 1707.94 1707.95 1707.56 1708.94 FT-SE Europeack 200 1749.10 1741.08 1739.03 1739.46 1739.09 1738.23 1739.86 1738.55 Jun 27 Jun 26 Jun 25 Jun 28 1698.43 1725.44 dend, fell a net DM35, or 13.3

> analysts considering the potential effects of a price war in the market. Renault dipped FF11.40 to FFr131.50 and Peugeot, with a recently stronger market share performance, by FFr21, or 3.1 per cent, to FFr661.

Takeover speculation in the reinsurance market lifted Scor by another FFr9.80 to FFr215.80; UAP, which has 40 per cent of Scor, put on FF12 at FFr103.80 in 444,000 shares. MILAN gave up an early advance to close flat as domes-

tic bonds eased and investors held back ahead of June inflation figures on Friday. The Comit index picked up 0.43 to 657.10, while the realtime Mibtel index turned back from a high of 10,520 to end a point down at 10,453.

Montedison lost L9 to L851.7 on further worries over capital write-downs, but Eni climbed L103 to L7,900.

Olivetti picked up L10.5 to 1.832.1 after Omnitel, in which Olivetti is the major share-holder, said that it had 300,000 GSM mobile telephone subscribers at the end of June. Tim, whose GSM subscribers at end-June climbed to 772,795, rose L36 to L3,493.

AMSTERDAM'S AEX index finished 0.58 lower at 559.45, after 563.24. The brewer Heineken dropped F17.20 to F1372 after reports of a mildly bearish note from a big US broker. BRUSSELS featured a new all-time closing high in Delhaize, the retailer, which closed BFr50, or 3.1 per cent, higher at BFr1,665 as the Bel-20

index rose 7.44 to 1,765.06. The retailer's gain followed an overnight rise in its US unit Food Lion of \$18 to \$8%. Food Lion accounts for around three-quarters of Delhaize's

group sales. ATHENS gave back all of Monday's 1.4 per cent advance on a combination of losses by bank shares and some industri-

introduced by Mr Costas Simitis, the prime minister, who consolidated his grip on the party machine at the weekend

were likely to be for the better. WARSAW was weak, as investors awaited the results of today's Russian election. The Wig index fell 165.1 to 13.616.3 and analysts sold that the reaction of foreign investors to the poll result would be crucial to the market's direction in com-

ing days.
MOSCOW, by its own recent standards, picked up only slightly as presidential aides sought to allay concerns about Mr Boris Yeltsin's illness, officially said to be a cold. However, the RTS-21 index closed 10.78, or 5.4 per cent, ahead. at 209.36.

The Russian market will be closed today, a holiday for the presidential election run-off poll. Brokers yesterday were divided over the post-election prospect.

Written and edited by Willen

Amcol, under investigation

by the government's white col-

lar crime unit, dipped to an

intra-day low for the year of \$\$2.98, before edging back to

the previous closing low of \$\$2.99, just as the market

closed. Analysts attributed

heavy volume of 5.7m shares to

forced selling by investors who

Aztech dropped 11 cents to 58

traded on the margin.

was 21.73 higher by noon at ASIA PACIFIC 5,065.80, but in weak volume of

Rate worries, finance house rumours depress Nikkei

Takyo

The mood, however, was Rumours that a non-bank soured in part by the host of finance company might go earnings warnings from US under, and mounting uncertainty over a possible shift in Alcan Aluminum shrugged monetary policy, combined to off a rating downgrade by Smith Barney, the US broker, to trade flat at C\$41.56. depress sentiment, writes Emiko Terazono in Tokyo. The Nikkei 225 average fell

Among heavily traded 107.52 to 22,347.97, after moving stocks, TVX Gold picked up 5 between 22,269.90 and 22,485.28. Investors remained wary Milkyway Networks abares, which made their debut on the over the course of US and Japanese interest rates ahead of a exchange, traded as high as press conference by Mr Yasuo C\$14.35 before pulling back to C\$13.20, compared with an ini-Matsushita, governor of the Bank of Japan, and the US FOMC meeting. The BoJ had changed its accommodative stance on the short-term money markets to neutral, following last week's decline in long-term yleids.

Volume totalled 295m shares as most investors stayed on the sidelines. Investors were also unnerved by speculation that Dai-Ichi Kangyo Bank (DKB) was about to suspend its finan-Finance, a non-bank money

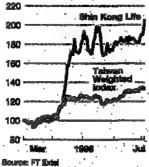
The Topix index of all first section stocks declined 8.78 to 1,699.48 and the Nikkei 300 by 1.98 to 315.09. Losers led gainers by 861 to 362, with 200 issues unchanged. In London the ISE/Nikkei 50

index rose 2.89 to 1.515.32. Large-capital steels and shipbuilders lost ground. Nippon Steel shed Y3 to Y869, Kawasaki Steel Y10 to Y391 and Mitsui Engineering and Shipbuilding Y4 to Y331. Carmakers fell again, with Toyota Motor down Y40 at Y2,640 and Honda Motor off Y20 to Y2,820.

Nichiel, the real estate developer and parent of Nichiel Finance, plunged Y71 to Y441, although an official at the latter. down Y80 at Y175, said the rumours were groundless.

Financials were lower, with DKB down Y20 to Y2,000 and Fuji Bank losing Y30 to Y2.340. Brokers lost ground on profittaking, Nomura Securities shedding Y10 to Y2,130 and

Share price & Index (rebased)



Nikko Securities Y30 to Y1.200. Keisei Electric Railway, the most active issue of the day. gained Y20 to Y1,270 on buying by individual investors. The company is a leading share-holder of Oriental Land, which runs Tokyo Disneyland and is reported to be considering listing on the Tokyo stock exchange. Mitsui Fudosan,

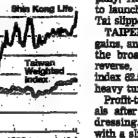
pany, dropped Y21 to Y754. dipped 104.10 to 23,625.31 in volume of 25.5m shares.

A solid afternoon rally lifted HONG KONG as expectations grew that US interest rates would not be increased at this week's FOMC meeting. The Hang Seng index rose 81.82 to 11,084.43, with turnover

improving to HK\$3.9bn.
One analyst suggested over-seas money had helped to bolster stocks. HSBC led the rally, climbing HK\$2 to HK\$120.

Kong's infrastructure spin-off which was priced at the high end of its projected range and was 25 times subscribed. helped the property developer rise HK\$1 to HK\$56.75.

HK\$2.05 on news that Asean warrant holders had rejected a proposal by its parent com-pany, Huey Tai International,

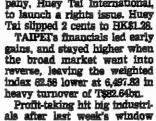


tal Land, put on Y30 at Y1,520. Some speculative stocks weakened on profit-taking. Kanematsu, the trading com-In Osaka, the OSE average

Roundup

Bullish sentiment on Cheung

Asean Resources tumbled 40



als after last week's window dressing. Plastics fell most with a slide of 4.8 per cent. Financials, which had lagged behind, resisted the pressure and rose by 0.6 per cent, with Shin Kong Life up by the daily 7 per cent limit, T\$8 higher

Dow offset weak metal prices. While the All Mining index was virtually flat, the All Ordi-naries closed 11.2 up at 2,256.3 in turnover of A\$619.6m.

BHP rose 21 cents to A\$17.51 on support after Monday's sell-off, and National Australia Benk, lifted by the Dow, put on 13 cents at A\$11.98. In contrast, the base metal

miners WMC, MIM and CRA all ended weaker after showing promising signs of resilience in the first hour of trade. WMC lost 11 cents at A\$9.

KUALA LUMPUR saw renewed vigour in some transport stocks as news that Konsortium Perkapalan was buying the US company Pacific Basin raised expectations of faster mergers and rationalisation within the local shipping and haulage sectors.

Konsortium stock was suspended, but Integrated Logistics rose 25 cents to M\$6.75, Diperdana by 70 cents to M\$22.70, Global Carriers by 45 cents to M\$8.70 and MISC by 20 cents to M\$7.80.

Interest rate concerns left the composite index just 2.77 her at 1,139.82. SEOUL edged ahead but vol-

ume remained alim as today's listing of 11 stocks on the bourse raised worries about oversupply. The composite index ended 4.14 up at 837.93. Samsung Electronics rose Won900 to Won72,900 on talk that semiconductor companies earnings would not be as bad as had first been expected.

SINGAPORE'S Strates Times

cents after reporting an unexpected first-half 1996 loss. BANGKOK had expected the

central bank governor Vijit. Supinit's resignation: and while it welcomed the move. saying it would be good for the battered Bank of Thailand. there were no celebrations in the equity market. The SET

index slipped 7.91 to 1,239.17.

3.

CROATIAN RADIO-TELEVISION Public Enterprise

Zagreb, Dezmanova 10 Based upon Art.5 of the decree on the procedure of purchase of

goods and services and concession of works (Narodne Novine" No. 25/96 and 32/96) public enterprise Hrvatska Radio-Televizija. 10000 Zagreb, Prlsavlje 3 announces. Public competition-Bid invitation for the collection of offers in order to choose the most satisfactory

bidder for the purchase on credit of the following 1.1 Transportable containered transmitter station.

- which consists of:
- FM-VHF II Transmitter output power 5 kw
- 3 units VHF II Combiner 3x5 kW 1 unit
- TV VHF III Transmitter Output Power 5kW 1 unit - TV UHF Transmitter Output Power 10 kW 2 units 1 unit
- UHF Channel Combiner 2 x 10 kW - Microwave Radio Link set for Transmission
- 1 TV and 4 Sound Channels Including antenna systems

Everything previously installed in transportable containers with the possibility of quick installation on the chosen location and attachment to the existing power supply and transmitting antenna systems.

- 1.2 Single TV and FM Transmitters:
- TV VHF III Transmitter Output Power 5kW
- TV UHF Transmitter Output Power 10kW 2 units - TV UHF Transmitter Output Power 20kW 2 units - TV UHF Transmitter Output Power 40kW 1 unit
- FM VHF II Transmitter Output Power 10kW - FM VHF II Transmitter Output Power 2 kW
- 1.3 Parity of delivery is CIP with designation of the installation location, that is, warehouse in

in this public competition.

- 3. The tender offer has to be composed according to the tender documentation and is required to contain the credit terms as follows: at least credit in the amount of the total price of the contract. For the period of 5 years with the grace period of one year and with the
- Tender documentation can be obtained, on a working day, in Hrvatska Radio-Televizija. 10000 Zagreb, Prisavije 3, Commercial Dept.,

acceptable annual interest rate.

Import Export, Room 13 or 16, Telephone No. 6163490 or phone and fax No.6163095, against the presentation of payment slip/paid money order/for the costs of documentation .-DEM 840,- to the account of Hrvatska Radio-Televizija in Zagrebacka Banka, Zagreb Account No. 30101-620-16-25000-3226247.

- 4.1. For all technical and other information bidders may contact Mr. Pero Kulusic, Telephone No. +385 1 6115 621, Telefax No. +385 1 6163199,
- 5. The deadline for submitting of the offers is 9th September 1996, until 12 a.m. to the address from Art. 4.
- 5.1. The offers have to be in English or Croatian
- 5.2. The opening of the offers will take place at the address from Art. 4. in the presence of the bidder proxies who wish to be present during the opening, on 10th September 1996, at 12.
- Hrvatska Radio-Televizija reserves the right to accept or refuse every bid, cancel the competition and reject all bids at all times before the signing of a contract and accordingto this will not bear any expenses in connection . with the participation of the bidders in the competition, or bear any responsibility toward the rejected bidders, and will not be under any. obligation to explain the reason's of it's
- Foreign and domestic bidders may participate 7. The offers must be submitted in a sealed envelope with designation ne otvarati-za javni natjecaj-oprema" ("Do not open-for public competition-bid invitation-equipment") to the address: Hrvatska Radio-Televizija, Export Import Dept. 10000 Zagreb, Prisavlje 3, Croatia

Croatian Radio-Television Commercial Dept. Export Import Zagreb, Prisavlje 3 CROATIA

FT/S&P ACTUARIES WORLD INDICES untional Limited, Goldman, Sachs & Co. and Scandard & Poor's. The Indices are compiled by FT-8E int not the Institute of Actuaries. NatiVest Securities Ltd. was a co-founder of the Indices. NATIONAL AND REGIONAL MARKETS

HEGIONAL MAHILEIS				MINE A	ULT 7 71						, june 2	8 1848 -		DO		DEX -
	S .	Day's	Pound			Local	Local	Gross	นธ	Pound			475			Year
		Chango	Sterling	Yen	OM	Currency		Div.	Dollar	Sterling	Yen	DIM	Currency .	52 week	62 week	ago
of stock inc	ex.	- %	Index	Index	index	Index	on day	Yield	ncia	index	Index	Index	Index	High	Low	(approx)
Australia (79)	1.80	0.2	192.32	139.78	159.84	170.44	0.1	4.32	201.44	192.21	139.66	159.41	170,22	212.18	163,30	163,98
Austria (24)18	1,44	~1.4	172.91	125.67	143.71	143.65	-1.3	1.5	183.92	175.50	127.52	145.55	145,49	198.96	165,11	197.48
Belgium (27)21	0.51	0.6	200.62	145.81	166,73	162.79	0.7	4.09	209.16	199.58	145.02	165.53	161,60	215.81	188.05	194.40
Brazk (28)18		1.5	172.23	125.10	143.15	334.00	1.4	1,98	178.13	169.97	123.61	140.97	329.23	181.89	123.07	1201.76
Carada (120)	0.05	0.2	152.53	110.86	126.77	157.98	0.0	2.29	159.70	152.38	110.72	126.38	157,93	165.12	134,14	143.07
Donmark (30)30		0.5	290.38	211.05	241,84	243.27	0.6	1.89	303.09	289.21	210,14	239.86	241,80	305.17	278.53	
Finland (23) 19	4.17	1.2	1111.03	134.49	153.78	189,45	1.3	2.64	191.53	183.05	133.00	151.81	167.05	276.11	171.73	236.22
France (96)19	7.14	-0.3	187,87	138.54	156,14	159.33	-0.3	3.02	197.80	188.74	137.14	156.54	189,74	196,39	167.70	181.35
Germany (58)17		0.0	164.18	119.31	136.44	138,44	0/1	1.82	172.32	164.42	119.47	136.37	178.37	174.38	155.86	157.49
Hong Kong (59)43		-0.3	410,35	298.24	341.04	427.91	-0.3	3.33	431,69	411.91	299.30	341.63	429.02	451.19	348.81	359.51
Indonesia (27)		0.9	205.91	149.65	171.13	308.31	8.0	1,49	214,14	204,33	148.47	169.47	305.76	_	_	
trelana (16)	9.90	0.0	273.42	198,72	227.24	252.78	-0.1	3.39	266.95	273.80	198.95	227.08	253/11	290.82	235.88	236,58
ftoly (591		-0.9	77,31	56.10	64.26	93.01	-0.8	2.37	61.90	78.15	58.79	64,82	93.77	84.53	87.22	73.33
Jopan (481)15		-0.1	149.16	100.44	123,97	108.41	-0.2	0.71	156.65	149.48	100.01	123.97	108.61	164,68	137.75	142.49
Malaysia (107)56		0.0	533.94	388.07	443.76	537.72	0.0	1.67	559.44	533,81	387.88	442,73	537.64	585.09	425.77	530.02
Mexico (18)122		-1.1	1162.87	845.17	986.47	10168.00	-0.5	1.31	1233.34	1176.84	855.11	976.03	10221.42	1325.65	791.99	1028.31
Netherland (19)		-Q.4	282.60	205.39	234.87	231.26	-0.3	2.12	297.87	284.03	208.38	235.57		299,60	245.79	248.89
New Zeoland (15)8		0.2	76.50	55.60	53.58	62.21	0.2	4.36	80.09	78.42	55.53	63.38	62.08	85.49	75.94	78.86
Norway (35)25		1.1	241.53	175.54	200.74	223.84	1.2	2.03	250.68	239.20	173.81	198,38		256.94	222.24	239.14
Philippines (22)21	4.96	0.4	204.86	148.89	170.26	280.51	0.3	0.54	214.14	204.33	148.47	109,47	279.60			
Singapore (44)41		-0.5	395.51	287.46	328.71	269.86	-0.5	1.41	416.98	397,88	289.11	329.99	271.23	465,21	355.81	383.37
South Ainca (44)		-0.5	343,79	249.86	285.73	341.45	-0.5	2.12	382.38	345.78	261.25	286.78		437.78	339,37	348,41
Spain (37)16		0.3	175.21	127,34	145.61	178.53	0.3	3.20	183.29	174.89	127.08	145.05		183.85	745.15	147.24
Sweden (48)		0.3	341.56	248.24	283.87	352.59	0.4	2.41	357.35	340.98	247.76	262.60		360.77	269.58	289.58
Switzerland (38)24		0.1	232.80	169.20	183.48	189.16	-0.1	1.56	266,1B	232.81	189.24	163,17		252.34	191.24	201.52
Thaiand (45)16		0.1	158.59	116.25	131.00	163.95	0.0	2.01	166.31	158.69	115.31	131.61	163.95	188.96		
United Kingdom (200)23		0.6	223.69	162.57	185.91	223.89	0.4	4.17	233.41	222.72	161.83	184.72			146.74	170.41
		0.8	362.13	190.51			Q.B			260.23	169.09	215.83		237.43	218.27	215.27
USA (627)	3.00	0.0	202.73	190.31	217.86	275.06	0.0	2.16	272.73	200.23	109338	213.63	272.73	278.47	222.54	222.54
Americas (793)25		0.9	239.29	173.91	198.87	211.09	0.8	2.14	249,05	237.64	172.68	197.09	209.38	252,43	203.80	203.80
Europe (711),21		0.1	201.83	146.71	187.77	185.02	0.1	3.06	211.52	201 83	146 65	167.39	184,00	211.82	188.21	188.21
Nordic (136)30		0.5	33.10	212.34	242.82	265.65	0.7	2.32	304,93	290,96	211.42	241,32	263.93	306.61	251.13	381.57
Pacific Basin (879)16	9.22	-0.1	161 <i>2</i> 7	117.21	134.03	119.31	-0.9	1.16	169.35	161.59	117.42	134.02	119.51	177.01	148.86	152.76
Euro-Pacific (1590)18	6.86	0.0	179.08	129.43	148.00	144.24	0.0	2.05	186.81	178.26	129.52	147.84	144.29	190.57	188.51	167.44
North America (747)26	7.95	0.8	255.35	185.59	212.23	287.22	0.8	2.15	285.75	253,57	184,25	210.31	265.05	289.52	217.82	217.62
Europe Ex. UK (511)19		-0.1	184,88	134.37	153.65	161.23	-0.1	2.46	194:16	185.27	134.62	153.65	161.31	194.16	189.85	170.00
Pocific Ex. Japan (398)28		0.0	274,40	199.43	228.08	248.71	-0.1	2.96	287.99	274.80	199.67	227.91	248.88	296.68	243.50	250.53
World Ex. US (1800)18		0.0	179.23	130.26	148.98	146.60	0.0	2.05	188.01	179.39	130.35	148.78	148.70	197.55		168.38
World Ex. UK (2227)		0.4	202.97	147.52	168.69	180.94	0.3	1.69	212.20	202.48	147.13	167.93	180.32	213.05	167,38	
World Ex. Japan (1946)24		0.5	225.63			233.85	0.5	2.50	245.98	204.71	170.54	194.66			182,12	182.12
14/2 III E.F. 180/81 (19-07	-	<u> </u>	244.03	171,25	195.83	233.60	0.3	2.20	243.36	SHIT!	110.04	124.00	232.77	247.55	208.79	208.79
The World Index (2427)21	1.96	0.4	204.86	148.89	170.26	185,05	0.3	2.09	214,14	204,33	148.47	169.47	184.40	214,96	184.85	184.85

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Interview with John Chambers



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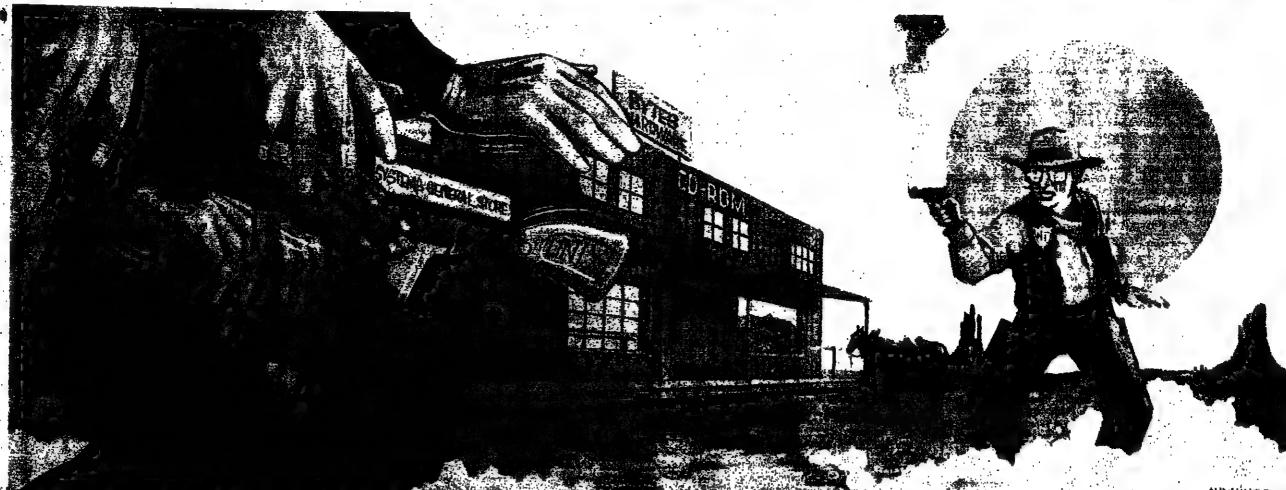


Perspectives Martin Bangemann Pace-setter on the infobahn

Software at work Internet software Rush for market dominance Page 15

Information Technology

Wednesday July 3 1996



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t's a classic showdown between an old hand and a young unstart. Nearly four years ago, Microsoft launched Windows NT (New Technology), a new "Industrial-strength" computer operating system which the world's largest software company promised would change the face of corporate computing. Now, after a slow start, a growing num-

that NT is finally mature enough to be taken seriously as an alternative to their old-but-reliable Unix-based systems.

This alone represents a remarkable about turn. Only a few years ago, NT was being written off as another unreliable and over-hyped failure. Now, as Microsoft prepares to launch the next version of NT,... which boasts a Windows 95-style user interface, it is viewed as a viable solution, especially for departmental servers. Some bolder companies have begun avaluating its potential for enterprise or corporate-

The initial uptake of NT was much slower than many analysts and industry pundits had expected. By last year, NT had secured only one per cent of the total operating system market, according to Dataquest figures.

Nevertheless, Microsoft professes to be pleased with NT's progress, particularly in financial institutions. At the important departmental server level, NT does now appear to be making big strides. The latest research figures from consultants IDC reveal that NT had seven per cent of the worldwide networking market, compared with 11 per cent for both Unix and IBM's OS/2, and 45 per cent for Novell Network, the market leader.

What is more, research groups such as Dataquest predict that NT will make further significant gains over the next few years. By the end of the decade, Dataquest s expecting NT to have secured more than 40 per cent of the operating system mar-

Perhaps more significantly, hardware

Shoot-out ahead over control of corporate network systems

The next 18 months are likely to be crucial in the battle between Unix and Windows NT for control of corporate departmental network systems. For Microsoft, which has bet its future on NT, it will also be a decisive period, writes Paul Taylor

vendors such as Digital Equipment predict that, by the year 2000, Unix and Windows NT will be level-pegging in the crucial server market - each accounting for about 40 per cent of server revenues, leaving the remaining 20 per cent to be shared out among so-called 'legacy systems'.

So what is driving the corporate IT world into Microsoft's arms? Aside from Microsoft's aggressive marketing campaign, there are a number of key factors working in NT's favour.

Among these, there has been growing distillusionment with Unix which, critics argue, has failed to deliver on its promise of ubiquitous open system computing and interoperability.

Indeed, Unix remains a collection of simflar but not identical operating systems which, with very few exceptions, will run on only one computer platform. Thus, AIX runs on computers of various sizes, but all made by International Business Machines. Meanwhile, Hewlett-Packard, Sun and other hardware vendors back their own Unix variants.

"Unix missed the chance to come together," says Hasso Plattner, vice chairman of SAP, the German software group, echoing an increasingly widely held view. What is more, moving Unix applications to new platforms involves not just recompilation but actual changes in 'source

code', raising the cost of developing new applications and after sales support. In contrast, NT appears to be much better positioned than Unix to take advantage of standard off-the-shelf hardware and software, particularly machines based on intel microprocessors. NT also runs on

Digital's Alpha servers, those using Silicon Graphics Mips chips and on IBM and Motorola PowerPCs. As a result, although NT applications which include all Windows 95 applications, since they are based on the same core

technology - have to be recompiled for each hardware platform, they do not have to be rewritten, offering a big advantage in terms of cost and flexibility. Microsoft has also built powerful alli-

ances to support NT with hardware vendors, such as Digital, and software companies, such as SAP. It has also encouraged software develop-

ers to use an extended list of development tools to build applications using NT. As Platiner of SAP notes: "Developers have switched to NT. Not everyone will like that, but it is true."

NT also makes it easier to integrate servers and desktop PCs with Microsoft's popular Office and Back-Office suites. For some buyers, picking Microsoft is a reassuringly safe bet because its dominance of

For business customers one of the most important factors will be cost of ownership and Windows NT scores in this area too. Not only are Windows NT based systems generally reckoned to be easier to set up and configure than their Unix rivals, they

are also easier and cheaper to maintain. "As Windows NT penetrates traditional Unix markets, support is becoming a key competitive weapon," notes Input, the UKbased market researchers.

"The complexity of Unix relative to Windows NT makes it more expensive to support. Additionally, there is a flourishing open NT support market which gives uses organisations a wide choice of external support contracts."

Competitors

Meanwhile, the introduction of higher performance Alpha processors from Digital Equipment and faster Pentium processors from Intel have helped NT compete more effectively with the fast Unix boxes' sold by Sun Microsystems and other com-

mitted Unix vendors. But NT is not the only server operating system that can take advantage of cost-effective Intel-based hardware. So, too, can Novell NetWare, IBM OS/2, and SCO Unix. which is already running on about two

other version of Unix, according to SCO. "Obviously, there must be additional reasons why increasing numbers of MIS managers are choosing NT," said Byte Magazine, in a recent report.

One factor, say corporate users, is that it is easier to integrate Windows NT with their existing hardware and software. Companies which already have Windows PCs on their desktops naturally lean toward NT when they have to choose among server options. They would rather deal with a single OS vendor, and NT has an instantly familiar look and feel.

But despite NT's ascendancy, most independent analysts agree that Unix still has some key advantages which are likely to ensure that it not only survives, but thrives in some environments, particularly large-scale enterprise-wide and high performance systems.

In terms of performance, the low-priced PC-servers are limited by their internal architecture when they try to tackle the really big jobs. Even the best Intel-based servers have trouble keeping up with the fastest Unix machines, especially when managing large databases developed using database software from vendors such as Oracle, Sybase, or Informix.

As databases grow, the scaling ability and robusiness of Windows NT are still big concerns for many large corporate cus-

omers, which is why even those who have bought into Microsoft's NT strategy, still have some Unix boxes.

Despite Microsoft's claims, most inde pendent consultants argue that NT still lacks the scaleability of Unix systems - an advantage that Unix is likely to retain for some time. As a result, many companies are choosing to mix NT and Unix-based use of both platforms.

For small or medium-sized installations typically departmental networks, they use Windows NT running on low-end servers containing four or fewer processors, but continue to deploy Unix servers where big-

ger systems are required. "Windows NT is definitely gaining ground in corporate installations, but because the global computer market continues to expand at a prodigious rate, NT is not killing off Unix. On the contrary, Unix is likely to thrive into the next cen-

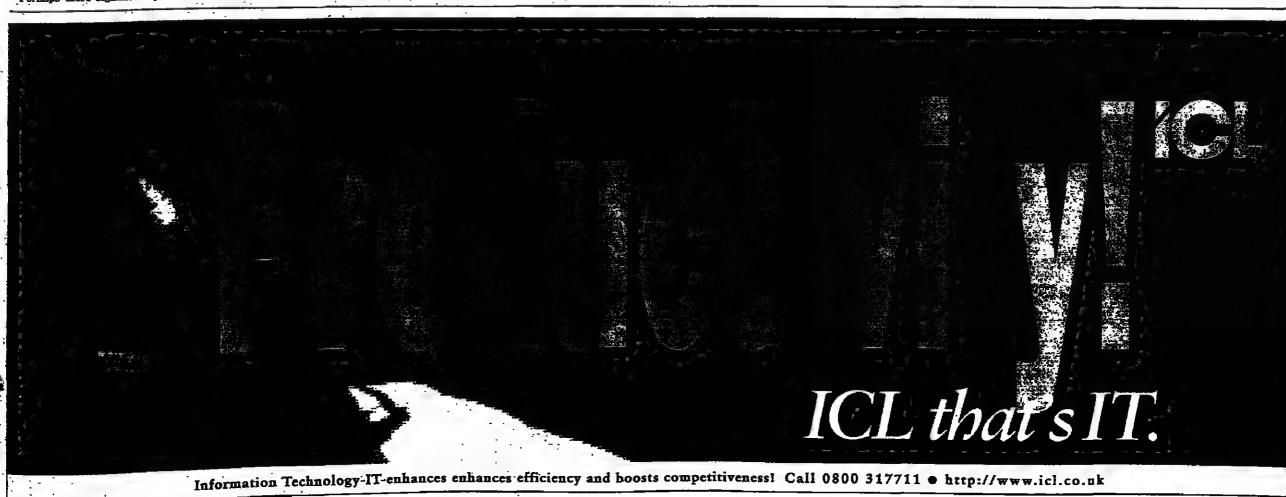
tury," says Bute. But as standardised Windows NT applications increase in variety, scope and quality, others argue that there is only one eventual outcome.

"There may be resentment of Microsoft within the computer industry and even among users," said a leader in the Infospectives journal in January, entitled "The

"But practical considerations will, in the and, determine the course of action businesses must take. If Unix software is substantially more costly than equivalent NT software. Unix software will not be as pop-

After all, the main reason Unix became successful was that it was cheaper for a software developer to reach a large market with a Unix program than with a program for a proprietary system.

"The Unix situation is nothing less than tragic," said *Infospectives*. "The hubris that led to AIX being different from HP-UX is now going to lead to the demise of the Unix hero."



Interview with John Chambers

Ahead of the pack on the information superhighway

"When you are growing at 90 per cent a year, I can tell you, your knees shake," says the president and chief executive of Cisco Systems. He is interviewed here by Louise Kehoe

wheel of the fastest race car on the information

The world's leading manufacturer of internetworking equipment, Cisco has supplied more than 80 per cent of the "routers" – data traffic directors - for Internet links worldwide. It is also in poll position as businesses build private "intranets" and as telephone companies rush to participate in the merger of voice and data communications. Yet another potentially huge market, networking equipment for the home, may be just around the

"In this industry we measure life in 'dog years'. We cram year ... the pace is unbelievable." says Chambers.

Bringing new products to market at breakneck speed is critical. Learning, as a young company, to provide customer support and service in the style of a mature industry is

To create a broad product line quickly, the company has augmented in-house development with licensing agreements, partnerships and and acquisitions. Over the past three years, Cisco has acquired ten smaller companies, culminating in the pending \$4bn pur-

ohn Chambers is at the ing producer of switching of broadband (network) equipment for high speed data

Yet as data networks becom part of the fabric of business operations as well as public services, there are advantages to having a single supplier for a full range of equipment, Cisco claims. "The products work seamlessly together and we can work with customers to create solutions that fit their needs," says Mr Chambers.

"Networking is of such strategic importance that customers lean in favour of a vendor that can provide a high level of service and support, and one that has international capability, as well as financial staying

isco's customers now view internetworking not only as a productivity tool, but critical to their competitiveness, he explains -"for some, it is a matter of survival". He adds: "We are just scratching the surface in terms of the amount of traffic going over the Internet."

Demand for network capacity will continue to increase. he predicts. "In inter-networking, everything has occurred much faster than we originally projected. Our customers tend to adopt our products at a much quicker pace than we requirements for busine and also for the home.

"Very often, when people are projecting how much traffic there will be on a [new] highwho is driving on the back roads today. But when you build the highway a lot of peotravelled before. They use it as a way to get to areas that perhaps they would not have gone

Similarly, he believes, demand for broadband services to the home will mushroom as soon as these networks are available. The key to opening this potentially huge new market is putting the technology in place at the right price, he

There must, however, be some "driver applications" that persuade telephone and cable companies to invest in upgrading their networks, he acknowledges. Interactive television trials have demonstrated that "video-on-demand is not the driver application, as people originally thought". But there will be other compelling applications, he believes.

These applications may be different for different parts of the population, he suggests. "For me, it was a combination of factors. I got frustrated with expect. The same will be true slow access to the Inter-



my presentations without having to drive to the office, and access to various news SOUTCES.

The initial users of broadband networks will be businesses and young professionals in their homes, he suggests. With more and more US colleges and universities providing students with access to high-speed networks in their dormitories, "we are now dealing with a whole generation of young professionals who appreciate how to use this technology and what it can do

Several technologies including ISDN, ASDL and (television) cable networks will be part of the solution to making high speed data network access more widely available, Mr Chambers believes. "We have no religion when it comes to technology. We want to solve the problem and we think it will take a combination of technologies to do

Higher-speed access is not the only hurdle to better performance of the Internet, however, as many PC users who have upgraded their modems

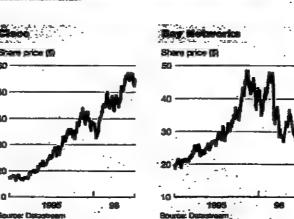
28.8 kilobaud models are now discovering.

"People often sit in a traffic jam and wonder what the cause is: there can be lots of different reasons for a hold-up on the highway," Mr Chambers observes. Similarly, on the Internet there are many points at which data traffic can be

"it may be the link to the service provider, but often a traffic jam can occur on the feeder highways, or at intersections." All the elements of the network need to be improved to assure the free flow of data traffic, he explains. "We will make products that allow the intersections to move faster. but we also need wider highways as well as software to balance the flow of traffic auto-

There will be an increased focus on reliability of the inter-net, he says. "What was an acceptable performance a year ago is not acceptable today and next year will be something that you get thrown out for. Early users of the Internet tolerated a level of reliability that will not be acceptable in a





Then Sun Microsys-tems coined the phrase "the network now until the year 2000," say Mary Meeker and Chris DePuy is the computer" in the 1980s, of Morgan Stanley in The Interwas largely an aspiration. net Report, published earlier Today, it is a truism that few in the information technology this year. Markets such as those for PCs, servers, semi-conductors and telecom ser-Networks - local, wide area and global - are defining a vices are also expected to see new model of information prostrong growth as a result of the Internet boom.

vital to corporate

Revenues for Internet-related products and services will rise

from an estimated \$4.95bn in 1995 to more than \$36bn by the

estimated compound annual

growth rate of 38 per cent from

cessing that reaches beyond Among the biggest winners the distributed or "clientwill be data networking equip-ment suppliers such as Cisco server" approaches to allow any computer to link with Systems, Bay Networks, 3Com, another to swap data or pro-Ascend Communications and Cascade. This market has been In the business environment, networks are enabling employgrowing at a rate of 60-70 per cent over the past year and is ees to access information expected to maintain at least a quickly, allowing them to 50 per cent growth rate over make better informed decithe next 12-18 months, accordsions. Networks also enable collaboration among working to analysts at Salomon

Enterprise computing . By Louise Kehoe.

Networks now

effectiveness

year 2000, analysts predict

industry would question.

groups and are increasingly

used to improve communica-

tions among suppliers and cus-

Companies now view net-

works not only as a productiv-

ity tool, but critical to their

competitiveness, says John

Chambers, chief executive of

Cisco Systems, the leading

data networking equipment

At the heart of this trend are

the communications protocols

and software standards of the

internet. From its genesis in

the late 1960s, linking four

computers at US Department

of Defense sites in California

and Nevada, the Internet has

evolved into a global web of

networks that anyone, almost

anywhere in the world, with a

personal computer and modem

The Internet communica-

"intranets". It enables comput-

ers to communicate regardiess

of which operating system they

are running.
Mosaic World Wide Web

browser software, commercial-

ised by Netscape Communica-

tions and others, is now expec-

user interface for office com-

puters. This will enable users

to locate information, whether

server in a remote country, in

Wide Web are triggering a

transition to another period of

extreme growth in the IT

industry that may well dwarf that brought about by the per-

sonal computer (in the 1980s),

market research group.

Stere price.(6)

"The Internet and the World

the same way.

can tap into.

Cisco Systems leads this group with an estimated 80 per cent share of the market for Internet "backbone routers" which direct data traffic on the Internet. The advent of high speed data communications technologies such as ATM and Frame Relay will create increased demand for network

The trend toward Internet and intranet computing is challenging established IT leaders

tions protocol, TCP/IP, has also upgrades, further boosting become a de facto standard for sales of data networking equipprivate enterprise networks, or ment, analysts predict.

Security hardware and software represent another booming segment of the networking market. As companies link their internal networks to the outside world, security has become a serious concern. Firewalls, designed to prevent ted to become the standard unwanted intruders, encryption software to protect the privacy of messages sent via the Internet and authentication it be stored on the hard disk of software and services are a personal computer or on a becoming essential elements of enterprise networks.

Sales of Internet-related security equipment and software were an estimated \$200m last year and will blossom to \$1bn by the end of the decade. the Morgan Stanley analysts

Internet access and service says Frank Gens, of IDC, a US providers (ISPs) have been mong the most visible early Among the early beneficia-ries of this trend are suppliers beneficiaries of the Internet "gold rush". New competition of internet hardware and softfrom large telephone compaware, data networking equipnies such as AT&T and estabment and internet access serlished online information services. "We believe new vices such as America Online es that are created by is, however, challenging the or for the internet marketplace pioneers of this segment of the will grow very rapidly, at an networking industry.

Despite rising demand, an industry shakeout seems inevitable. Already in the US, for example, AT&T's entry into the market has forced several other ISPs to reduce prices. The market is also tragmenting as some ISPs focus on consumer services, while others are concentrating on high speed Internet access for busi-

While the trend toward Internet and intranet computing is creating new opportunities, it also challenging established IT leaders. In the browser software market, for example, Netscape Communications and Microsoft are engaged in an to 100 per cent a year.

all-out battle for market share Microsoft is scheduled to Internet Explorer later this summer, and claims that the new program will overtake Netscape with new features. Microsoft has also

announced plans for a new version of Windows, expected next year, that will adopt the browser as its primary user interface. Netscape, however, is fighting back. The current market leader, with an estimated 80 per cent market share. Netscape is launching new versions of its Navigator program every few months. Moreover, Netscape is expanding the role of the browser to create what is, in effect, a new

PC operating system. For the first time in many years, Microsoft faces a tredible challenge to its domination of the desktop computer envi-ronment. The risk Microsoft. faces is that third party software developers will turn their attention to creating Internet/ intranet applications, rather than only for Windows,

Scott McNealy, Sun Microsystems chief executive, is coninced that this will happen He envisages heards of small start-up software companies writing programs using Java. Sun's new platform independent Internet programming language. These programs, he says, will be stores on servers and downloaded to desktop computers only when needed Instead of coing after just the Windows market they can write for Windows, Macintosia UNIX, OS/2, mainframes as well as new Network Computing platforms," says Mr

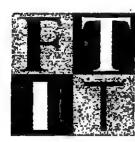
Larry Ellison of Oracle has also been promoting the "Network Computer" or "Internet appliance"; a low-cost terminal that will enable users to download software and data from the Internet and intranets. About two dozen companies

have committed to manufacturing Network Computers, or components for this new category of devices. The first modtember, says Mr Ellison, with broad availability expected by the middle of next year.

Some industry observers view the Network Computer as a threat to personal comm manufacturers and to intel, the leading supplier of microprocessor chips to the PC industry. Mr Ellison, however, expects Network Computers to augment the use of PCs; ratherthan replace them. Several of today's leading PC manufactur ers will soon be offering NOS. he says. Moreover, intel will be the primary supplier of chips for Network Computers, Mr Ellison predicts.

The corporate application of NCs will be "very important" he says. "It addresses the sertous problem of the rising cost of computing," In the consumer sector, NCs are expected to take many forms. One of the most promising applications, however, is multimedia elec tronic mail, says Mr Ellison He anticipates that electronic messages that may include graphics, video and sound, will "enormously popular".

Within a decade access to Internet-style data networks may be ubiquitons in the US, with other industrialised countries following a few years later, industry analysts predict, and with the number of users growing at a rate of close:



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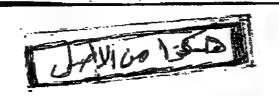
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/ networking

in June the launch of "the IBM PC Server Compatibility Program" - described as "a set of co-operative relationships between IBM and selected providers of PC hardware options and applications". The goal of the program is to

test compatibility of other van-dors' products with IBM PC Servers. Initial program participants include 3COM, Intel, Madge Networks, Mylex/Busiogic, Olicom and Standard Microsystems Corporation, (SMC). Meanwhile, arch-rival Compaq Computer teamed up with Intel, the leading computer chip-maker, to unveil an effort it is calling "Pacesetter '96" to conduct software integration and optimisation testing on Compaq's ProLiant 5000 systems, using Intel Pentium Pro processors.

In addition to testing and integrating their software on the new ProLiant platform, Compaq says "Pacesetter '96" participants are preparing evaluation reports to assist customers migrating or installing business-critical applications on the new ProLiant 5000. The company says these evaluation reports will help customers worldwide obtain optimum performance, reliability and scaleability for their business-critical computing applications.

"Compaq, intel and their partners have jointly conducted months of comprehensive testing to deliver the

another in building industry alliances that will give an edge to their range of products T nlike the desktop comgrated, optimised, reliable and server group. "We've accomputer market, where the specifications of powerful solutions for business-critical applications," one product in a given cateclaims Gary Stimac, the senior vice president and general gory are much like any other. there are real differences in the manager of Compaq Systems design of - and standards used by - PC servers designed to

"Whether the application is for the Internet or an intranet, transaction-processing or decision-support, with Pacesetter '96 Compaq has ensured that customers can immediately deploy enterprise-class applications on the ProLiant 5000 and Pentium Pro technology."

Intel, of course, is equally trying to get customers for server systems to demand use of its top-end Pentium Pro pro-

"Intel worked with Compaq on the Pacesetter '96 programme to give customers the best possible performance on Pentium Pro processor-based ProLiant systems running the enterprise solutions of these leading software companies," enthuses Dave House, senior manager of Intel's enterprise

plished this by providing these leading enterprise application vendors with early access to ProLiant 5000 systems to ensure their products are fully tested, optimised and inte-

Key players in the market for up-market personal computer 'servers' are working hard to outdo one

grated for the new SMP Pentium Pro processor-based

Intel and Compaq are working on the 'Pacesetter 96' project

Participants in the Pacesetter '96 program include Andersen Consulting, Arbor Software, Autodesk, Baan, BMC Software. Computer Associates, FileNet, Informix Software, ISOCOR, Lotus Development, Microsoft, Novell, Open Text. Oracle. Price Waterhouse, LLP, SAP America, SHL, Sybase and ViewStar.

Hardware developments . By Tom Foremaki

Meanwhile, Digital Equipment Corporation has earned a unique distinction with a new partnership it has established in Canada for server products based on Digital's Alpha com-

puter processor. Digital's Alpha 64-bit computer servers have been selected to host Canada's Internet Payment Processing service, the first Interac compliant home shopping and

banking system. The AlphaServer Model 1000 and 2100 systems will provide the computer power to run Canada's virtual shopping mall, including hosting retail and financial Web sites and processing consumer transac-

"We selected AlphaServers as the technology of choice to run Canada's online shopping because of its processing power and performance,

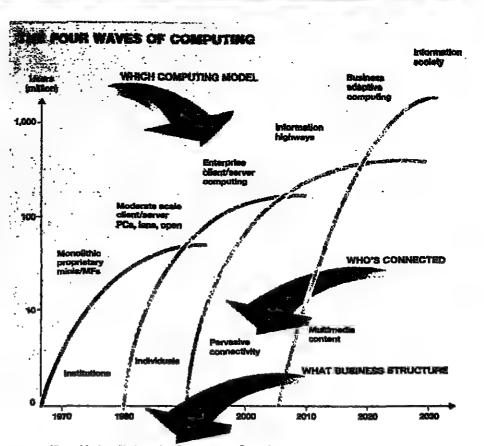
"One of the major compo nents to our success will lie in our ability to provide the 'ahopper' with easy and fast ss," explains Gary Bart-

holomew, president of the Pay-Pro Network. More than 20 Digital AlphaServers will handle computer-intensive applications, such as database software and data warehousing, as well as running the service's Windows NT applications.

"Digital has been extremely visible as a leader in Internet computing. This established expertise along with the flexibility and power of the AlphaServer made it very apparent needed to build our service upon," says Wayne Simpson, executive vice-president of operations at the Pay Pro Net-

equipped to handle multiple and multi-function transactions and contain the 'scaleability' that will allow us to quickly and easily expand our system as our retail and con-

Internet computing: recasting the dynamics of the software



More flexible routes for network growth

Stackable hubs allow network equipment and users to be added without disrupting

the whole system B networks become more important to businesses, Companies that provide networking equipment - such as hubs, routers, switches and bridges - are trying to make it simpler and less expensive to set up and manage networks, especially for smaller offices.

One important trand is in

stackable hubs. These hubs connect local area networks (Lans) and act as the connection between Lans. They used to be fairly formidable places of equipment, requiring a reasonable amount of expertise to set up and manage. But this is bring out stackable hubs. These can be as simple to use as plugging in wires and run-ning installation software. Stackable hubs are a cross

between the more complex and larger chassis-based hubs and simpler stand-alone hubs, with some of the best features of both. Stackable hubs are available for all types of network such as Ethernet or Token Ring. They have a small footprint, which makes them ideal for smaller organisations and offices. And they can be combined to grow with a company and allow users easily to expand their networks. As their name implies, stack-

able hubs can be stacked on top of each other as the need arises. They are also easier to manage: a stackable hub might cost about \$45 & user compared with the less versatile but cheaper stand-alone hubs at

than a chassis-based hub, which is designed for larger numbers of users and may cost as much as £100 a user.

Improvements in network management software mean that users can add stackable hubs and manage them as a single entity, able to spot problems before they arise, and make it easier to configure the network for new users. Vendors

Stackable hubs are available from several vendors with some of the more popular products coming from companies such as 3Com, Hewlett-Packard, Bay Networks, Standard Microsystems and Digital Equipment Corporation. 3Com is a pioneer in provid-

ing stackable hubs and it plans to launch a new generation of its SuperStack stackable hubs August, These hubs will have several new features, including electronic port switching for adding users. The company is confident

that port switching will be a popular feature, especially among customers that have to add or remove large numbers of users on a regular basis. "One of our customers is a large petroleum company and

every year about 75 per cent of its headquarters staff move as it brings in people for training. We will be the first with port switching at a breakthrough price, which will make it easier to add users to the network and also save on staff costs in terms of managing and maintaining the network," says Edgar Masri, vice-president and general manager at 3Com's premises distribution division

Other new features will make the hub more robust by including a hot-swap capability that allows users to add net-

work equipment and users without disrupting the entire network, says Masri, And improved remote monitoring software will also be available to track network performance, spot potential problems and identify which components in the network need repair or

Standards

3Com recently joined with IBM and Bay Networks to announce a common set of standards and specifications that will make it possible for users to mix and match network equipment from different vendors without compatibility problems. The common specifications cover routers, hubs, inter-networking and ATM (or asynchronous transfer mode) technology for building very as large video, graphics and fast networks.

"This inter-operability

announcement will enable customers to select and integrate best-of-breed technologies that will deliver the performance and quality of service essential to next-generation applications," said Andy Ludwick, president and chief executive

of Bay Networks. "As networks become more complex, customers face increasingly difficult issues related to standards and compatibility," said Nick Lippis, president of Strategic Networks Consulting.

"This announcement provides a forum for addressing these inter-operability challenges and is a welcome move for the industry. Masri says that technologies

such as ATM will help companies build fest Lans that can handle multimedia data such

Continued on next page

Evolution of computing

Since the beginning of professional computing there have been three distinct ways of building computer systems these have been 'waves' of computing which began with mainframes alongside dumb terminals; the second wave was the mini-computer.

The third and current wave is typifled by PC-based networks, connected through cen-

tralised data repositories. In a new guide* called 'Intranet Essentials', Sun Microsystems says the next wave of computing is the Intranet, defined as 'deploying Internet technology inside an organisation'. An Intranet needs no link to the global Internet. Much of the technology that allows organisations to build Intranets is rooted in the Net and the World Wide Web. Recent estimates suggest there could be 500m Internet neers by the year 2000, compared with 60m today.

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Managing the network • By Tom Foremak

Support services do not come cheaply

Planning for a network failure is an important task which some companies fail to carry out adequately. There is also a need to measure the true effectiveness of company help-desks

network, companies must make sure that they can support their users through help-desks and have the necessary staff and tools to help manage the network.

As companies grow in size, their networks become increasingly complicated as new users are added, other users leave the company, and as the capacity of the network is upgraded with new equipment from multiple vendors. And there is the issue of emergency planning in the event of a network failure which could bring a company's business to its knees if the network cannot be restored outckly enough.

nent of a business network. levels of computer expertise and even the best-trained staff often need to talk with an in-house expert to solve the inevitable problems that arise. But support services are a

big expense for companies. US market research firm Dataquest, says support services of IT spending and that many companies spend more than 50 per cent of their IT budget on external and internal support

What we see with clients is that as network activity increases, activity related to help-desks also increases, but help-deska can often be overlooked as a key factor," says Don Cleavinger, chief technolorist for the information services and communications that EDS offers help-deak services for clients and has developed a methodology that makes them more effective. We have seen many mis-

system upgrade, the help-desk cople are sometimes not informed of the changes and so they can't help users with their problems. There is also a necessity to set up metrics to measure the effectiveness of the help-desk, otherwise you cannot judge how useful the help-desk is to the organisesays Cleavinger.

The popularity of the Internet has led to new approaches to help-desks which take advantage of different time zones. Astes International is offering client/server software sites that will route calls from users to a help desk. If an enduser in London, for example, has a problem in the middle of the night, their call for help can be routed to a help deak in Australia where there are staff

World wide web sites are also useful in collecting information on fixes to common problems. Before talking with n help-desk expert, users can check a web site for information on solving their problem. Again, this is useful when help is required outside of help-desk

Problems in the network itself are another category which affects users, but is usually related to a hardware failure somewhere on the network. Fortunately, spotting hardware problems has

remote diagnostics software which can spot potential probiems and locate where failures have occurred. In the past, it used to be a big task pinpointing where the hardware failure was, a task that become more

These days, most of the components in a network have chips which identify themselves to the network manage ment software and relay information about their current

lanning for a network failure is an important task which some compa nies fail to carry out adequately, says Kevin Bishop European and Middle East marketing manager at IBM Networking Products

"The order in which you bring up a network after there has been a failure is important," says Bishop. "In some companies, the accounting up first, because we need to send out involces or bills', but this is usually wrong. You can always catch up with the accounts and send out bills a couple of days late, but if the network serving your sales staff goes down, then you don't have any way of generating new sales because there is no way of catching up with lost

Bishop says that IBM will perform an audit of a company's network to determine which parts are essential to the business and to put together a plan of recovery in the event of a network failure and recommend the best strategy for per-

IRM also belos companies with the network infrastructure, where to place equipment take other measures to operation. Staff are led through practice crisis trials so that when a big problem srises, the steps to be taken are more familiar and executed more

There are trends in remote diagnostics software that make it easier to put together networks with a mixture of bardware and software from offierent vendors and have a single management system. Previously, network management software was specific to each vendor's networks, but now there are more industry standards and moves to improve

For example, IBM, 3Com and Bay Networks recently said that they would co-operate on developing common specifications that will make it easier to combine and manage their respective network products within one heterogeneous net-

Although the alliance is partly aimed at allowing the with network market leader Cisco Systems which has its own proprietary network management software, the move should help the end-user as the industry moves to adopt standard specifications.

To be able to mix-and-match

forward and it will help to reduce the cost of installing and maintaining networks. Customers will be able to buy equipment based on features and price rather than being tied into one vendor because of possible compatibility prob-

While installing and managing networks is a high priority for companies, the cost is cer-tain to be offset by the rewards of more efficient use of IT

Network skills shortage

Demand will remain high at least until the end of the century, say researchers

Tetworking is now the area of greatest skills shortages - and is being made worse by the fact that technical knowledge alone

is no longer enough. That is the view of an industry already short of skills in ferent areas yet generally unwilling to train people in networking or offer them the right career path. in the UK, skills and problem

diagnosis tied as by far the big-

new survey on local area networking by research firm Spikes Cavell for UB Networks. cent of companies have had or are currently experiencing network skills shortages, according to recent research by recruitment group Delphi, again far more than those with

staffing problems in other IT Demand for Novell networking skills grew by 47 per cent to more than 7,500 vacancies in the 12 months to March and by 11 per cent in the first quarter of 1996 alone, according to a quarterly survey of job adver-tisements by research firm SSP for trade journal Computer Weekly. There was similar growth in demand for internet TCP/IP experience, while g eral local area network skills saw 22 per cent growth in the number of vacancies. Microsoft Windows NT came into the top 20 for the first time at numb 11, with 45 per cent growth in the first quarter of 1996 alone, or 6,859 vacancies over the 12 months. These findings are reflected in the fact that Nov ell, Windows NT and TCP/IP

high demand at least until the end of the century," says Organisation and Technology Research (OTR). "It will be fuelled by large sustainable growth in the client-server market, growth in network products and services, underlying demand for jobs based on networked and distributed stems, the increasing power of supplier companies which aim their products at individuals and the desk-top, and commercial and political pressure concerning the so-called infor-

mation highway." organisations adopting client-server systems increasing from around 20 per cent to 70 per cent by 2000. Such statistics beg the question of where the people needed to fill the vacanies will come from

Back-room technical lobs. typically designing, monitoring works linking scattered offices, offer new opportunities to tra-ditional mainframe systems programmers, the highly techical specialists who know the inner workings of operating systems, according to Mr Citve South, a manager at recruitment group Software Personnei. These people saw only slow growth in demand for their skills in the early 1990s as companies switched to chemiserver set-ups.

However, most network activity is around the office, need another vital skill alongside their technical knowledge "The market needs people with technical experience but also the ability to talk to endusers," Mr South says.

"Users are naturally inquisitive if someone brings in a new workstation or adds networking to their PC. You can't blind them with science: you have to be able to explain the benefits and what the system does without going into hits and

education or from schemes to mers who have gone for develop Modern Apprentices and others with the higher levels of National Vocational Qualifications are a source of

taught networking and personal computing and are increasingly also getting the necessary inter-personal skills," Mr South says. Mr Paul Butler, a director of

Peritas, says most of the people going through the Novell Windows NT and TCP/IP courses



Paul Butler of Peritae: 'A high : ge of on-line students are

ng for their own training": ere IT specialists being reskilled. Peritas offers both traditional classroom courses and online training combining self-study and discussion over the Internet, and Mr Butler save "a high percentage" of online students are paying for

their own training. Strangely, however, after all the training, these different groups of people can find themwith the result that they leave, taking their skills with them. This is because they often end-up on the help-desk. This can be frustrating both to new

retraining after years of main-

frame experience. "It's a real problem." Mr Butler says. "The help-desk is supporting IT infrastructures. seen as a dead-end, typically consisting of a supervisor and lot of people on phones. It has usually been regarded by companies as a necessary evilthe FT department - and not taken seriously. Users ofter see it as no more than a barriel block their access to the FF

the help-desk, to give it credia career path. The staff need to he trained to handle calls professionally, to log problems and then monitor trends and establish an on-line knowledge

base of common problems." Mr Butler is optimistic about the future of the help-desk and therefore about its role in nurturing and retaining networking skills: Peritas help-desk courses are now seeing the third biggest growth in demand, after Windows NT and TCP/IP; and all these courses are "quickly booked

desk salary was £11,000-£15,000, but far-sighted companies are now increasing the maximum to £17,000-£19,000," Mr Butler says. "In these companies. junior IT staff and those with help-desk as a good career ove and a place to get good initial experience in IT prod-

ucts and problems. The Invisible Lan, by ces Copell: 01635 550449; Delphi Group: 0171-440 2000; Perites: 01758 868181; 0171-402 8574; Software Personnel: 01208 690968. Callers outside the

published in the US by Que as "the extent to which a given computer or program can func-tion in a network setting". This points to one of the

are now the top three courses

IT training company, ICL's

in demand at the UK's bigg

with which it has been struggling for more than a decade and which is not fully resolved. For computers to function ting requires both compatibility of hardware and software and inter-operability of complete systems, enabling people and machines to communicate

In spite of efforts by official and unofficial standards bodies, hoosting connectivity continues to demand considerable attention from sumplists and

It means grappling with several different technologies, from local area network (Lan) servers and routers through various types of communications software to applications such as email, groupware and electronic commerce

System managers still have a maze of Lan specifications to negotiate. The announcement hy Bay Networks IBM and 3Com that they will form an inter-operability alliance" to create common specifications could help bring order to the market, although at the outset the deal excluded Cisco, their chief competitor.

The connectivity challenge has become increasingly com-plex as more and more compater users work outside their ompeny's main offices. Many employers have formed a pol icy of requiring staff to work at est some of the time from other places. These people need access to their corporate offices, home offices, customer

Connectivity is defined by the Computer and Internet Dictionary - Still in search of the missing link

As the number of remote network users grows, companies are seeking new ways to connect different technologies

sites, vehicles or hotels. There is another, similar set of problems associated with users accessing information from systems belonging to different organisations, such as the Internet and other online

The users of mobile computing are becoming more diverse, from fire engine crews to financial consultants. Some companies now have several thousand staff with remote access to their networks. Supporting such a m

Speed and security are crucial issues for systems managers

management task and potentially very expensive.

acquired their own modems, creating problems for the control of the hardware or the costs of its usage. Such costs mainly relate to telephone charges, especially if leased lines are involved, and to network support About 80 per cent of the cost

of remote access relates to telephone call charges and only 20 per cent to equipment, according to Full Crocker, a director

of marketing for Shive, a remote access product vendor. He emphasises the need to manage telecommunications

A principal cause of high telephone call costs is that the IPX and SPX protocols used by ost Lans based on Novell's NetWare were not designed to minimise call time.

The latest remote access software can have timers included to ensure that the use of telephone lines is optimised, netoff-peak periods.

Another cause of high costs is the tendency of users to make calls to suit themselve without thinking of the finan-

rocket," warns Crocker, "It is have proved too slow, espein to the corporate Lan and get connection from there." Network support costs are could cripple a company," says. Crocker. Ease-of-use is therefore a primary criterion in the

design of remote access prod-

The spread of ISDN (integrated services digital network), the international nublic digital network, has made data communications between many remote sites feasible and brought huge demand for

most important issues for systems managers who are seeking to provide remote to John Birbeck, managing director of the remote access division of manufacturer Bay Networks (formerly Xylogics).

Users are starting to move from dial-up modems and leased lines, which are expensive solutions, to personal ISDN routers running at 64Kbit/s, he savs.

These systems give users and routine updates are sent at . bandwidth-on-demand, that is the right amount of capacity for the often relatively short periods when it is needed

ISDN routers are often being chosen because remote access to a network and retrieval of "If mobile users call the data by modem or by ISDN ter-Internet directly, costs will minal adapters fitted into a PC usually better for them to dial . cially for uses such as the

> Pershing, the financial services company, has been repla with ISDN routers for the past two years. Paul O'Sullivan. routers are much more cost-effactive and easier to support. He hopes they will be installed at all 60 sites on his network by next year.

Many organisations have of about 64Kbit/s, but want 128Kbit/s to deliver a more sat-Continued on facing page

Vendors target small office market

Continued from previous page

audio files. They will also help to ease congestion on net-Network equipment vendors

are also looking at new markets, such as the rapidly growing small office and home office market, with products specifically designed for them. Cisco Systems recently introduced a modern-sized Ethernet-

to-ISDN router that can replace

multiple telephone lines by allowing several office

EDM

Scheduling

CAM

Process Control

SCADA

International Data Corporation (IDC), the market research company, predicts continued strong growth in the local area network (Lan) market, especially for switches, which are

machines such as personal computers, telephones and fax connection. Cisco says that the Cisco 765 and 766 routers are designed for small offices and

increasingly competing with routers as companies try to enhance the efficiency of their

This stuff is expensive.

Lans. IDC estimates that the Lan switch market grew from 350m in 1994 to \$1.5bn in 1995. "Customers are clearly adopting large numbers of Lan and backbone congestion, says Lee Doyle, analyst at IDC.

Router sales Although high-speed switches represent strong growth in the local area net-

work market, routers still hold

a dominant position, growing

in 1995 by 43 per capt to a \$3.7bs market and by 71 per cent in terms of unit sales. Although switches are taking on the role of routers in acting as intermediarles between the backhone and the Lan, routers are in no danger

Switches can be cheater and easier to use than routers but router vendors report that customers are still buying routers but using them in different ementary way.

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Workflow'96: EDM/PDM

F. William Wall

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Multimedia networking • By Phil Manchester

Many hurdles to overcome

Data compression and ISDN links are improving the delivery of audio and video links over networks

The first wave of excitement about networked multimedia and its potential for new applications is being replaced by a more pragmatic view. Expectations have been lowered - partly because of increased exposure to the limitations of multimedia technology on the internet and partly because pilot trials have not lived up to their early

There are several reasons for this. The standard telephone network is far too slow for video and audio, both of which depend on time synchronisation. The alternative - the integrated services digital network (ISDN) - is still relatively expensive to install and maintain. And the software technology required to provide multimedia services is complex.

This is expected to change. The cost of ISDN connections is falling. Professional services companies are starting to offer both the software technology to bandle multimedia content over networks and the support

work users. People who bought

modems three years ago to

achieve 28Kbit/s are now

upgrading to routers with the

The faster speed should be

sufficient to cope with most

tions currently available, but

users will probably find other

applications in the future which will make even higher

demands on the technology.

Users working in places

where ISDN services are not

available are likely to feel

increasingly disadvantaged.

Germany and France are well

advanced in the adoption of

aim of reaching 128Kbit/s.

European variations

The growth of ISDN is crucial to the development of networked multimedia. The increased bandwidth of ISDN enables, for example, the possihility of reasonable quality dig-ital video transmission across networks. This will make videoconferencing - and other multimedia services - viable.

Ermie Radowick, director of the entertainment operations group at EDS, the US software company, has high hopes for videoconferencing over the

"It is definitely one of the hot applications of the future," he says. "At the moment, the limitation is on the bandwidth of the network. But, as the bandwidth increases, we will see videoconferencing coming

EDS uses multimedia networking internally for distance learning. This allows it to cut training costs by broadcasting lectures over the network. Students can interact with the lecturer through a keypad. Although it says this has

proved successful, EDS sees a big gap between this and full networked multimedia services. Further improvements in telecoms infrastructure are essential.

"There are still heavy limitations on the availability of the network and there is a major investment needed in many

ISDN, but the UK has not

moved as fast, and services in

The security of remote

access depends on good management and the adoption of

allow users to achieve a mini-

lower price, irrespective from

which manufacturer they buy.

other European countries vary

countries to switch from analogue to digital communications," says Hartmut Goetz.

He sees other problems with developing networked multimedia services: "There are issues over censorship, intellectual property rights, crossborder flow of information and

regulation on the Internet and no clear way that multimedia services will develop," Goetz

ome companies are taking the buil by the borns and building services on the emerging ISDN structure at the same time as offering Internet services. The Signpost Multimedia Library, based in London, offers companies access to a broad range of multimedia clips - from high-resolution 'stock photography' to audio and video clips. It uses a range of ISDN services, including the Internet ISDN.

Richard Johnson, man director of Sigmpost, savs this was because he saw the need

that the high profile of internet-based communications has of online media: "Since we started Signpost we have seen that the online stuff has become less of a mystery and

the internet has helped. "Although it is still a bit shaky when it comes to delivering good multimedia products, a lot of people have gone online and got a taste for the

sort of thing they can get." However Grahame Poulter, chairman of On Demand Information (ODI), a networked multimedia specialist, is sceptical about using Internet-based communications for graphics and video transmission at the "Video on the Interact is

really not at all viable. People have been carried away by the bype and I think it is likely there will be a backlash. "I suppose it will come one day - but the serious questions that need to be asked are when

and how good the quality will Installing an ISDN service is one way forward. Poulter says

from the start. He also thinks ISDN processing for a lower cost than they might think: At the simplest you can put in now. This would include \$400 for the ISDN connection and about £750-£900 for an adapter board for a PC or a Macin-

ISDN lines come in two forms. The basic ISDN-2 service offers two channels, and the more expensive ISDN-30 offers 30 channels, ISDN channels can be combined to improve the throughput and further reduce costs.

"You can aggregate the channels so you can push stuff through much faster. This is called bandwidth on demand and means you can pick up as many channels up to 30 as you need. With video, for example it might be faster and less expensive to use all of them, Poulter explains.

n addition to improving transmission speeds by Lusing ISDN, graphics and video can be moved about more efficiently using data compression. There are well-established standards for data



Transatiantic discussions: this PictureTel vide

images and MPEG for moving images (video), Until recently data compres sion was restricted to hardware - meaning you needed a special adapter board in the workstation to decode images and display them. But recent products also allow software decoding - reducing the cost

data compression standards promise to improve performance even further. "MPEG 4 is coming soon and

significantly. Moves to upgrade

that will push performance up. We also recommend dedicating a server computer to compression and decompression. You can send the data across a local area network and free up the workstation to do other work," says Poulter.

Advances such as this will help bring multimedia to the desktop at a reasonable cost and, when combined with fas ter, higher capacity networks, open the door to multimedia

It will be some time before full business-orientated multimedia services such as videoconferencing become viable through standard internet connections. But the network textinology is advancing quickly and pioneering companies such as Signpost and ODI are building the foundation for the multimedia services of the future

internet software tools: see report, page 15

Planning a global network . By Marcia MacLeod

A complex route to customised solutions

Connectivity Knowledge of variables in taxation, equipment imports and legal requirements in each country are among important issues

> is becoming an increasingly attractive option for multinationals: not only is every office in every country linked together, but every office has the same software, with screens that look the same thanks to an identical graphical user-interfaces (GUIs). And any executive relocated to or visiting a different site can

suitable products, particularly access the company's system. But buying such a network A new specification called is not easy; before the network Radius (remote access dial-in user security), being developed is purchased, the company has by the Internet Engineering to decide which equipment will Task Force, may create an be most suitable for all purposes and in all countries. open standard for remote access products. This would

It also has to decide a number of variables, such as what mum level of security at a version of a packaged software product should be used and what language it should be in.

nstalling a global network If English is not understood worldwide computer solutions. Amsterdam, Paris, Frankfurt, notable exception being the ruther than telecome." throughout the organisation. someone has to ensure the correct language is used for key-boards, software and manuals - but if kit is produced for Shanghai in Chinese, which do we need for English-speaking

> There are service providers who claim to be able to take care of the total supply and installation of a global network. Few can do so without sub-contracting most services. International Telecommunica tions Services (ITS) is one, thanks partly to its parent company, the Sita group, which runs a global telecoms network for airlines, and partly to its extensive network of

offices in 220 comprise. ITS can supply a customer's - from main server machine and PC workstations to network technology, cabling, and software. ITS will buy what it does not make, through pertnership agreements with a number of suppliers, such as IBM, Lotus, Cisco (a network router vendor) and Isocor (an X.400 specialist), or incorporate equipment supplied by the cus-

Pre-sales advice

But the real benefits of using a company such as ITS is the knowledge of global computer and telecommunications requirements: the service starts with pre-sales advice from one of the company's larger offices in Maidenheed.

New York, Singapore and, soon, Switzerland and Italy. "We use the pre-sales phase to work out all the parameters

before the sale," says Christian Fournier, administration and finance director, "so we can advise clients on the way we will customise their solution. "Does the customer understand, for example, that it is not possible to have a com-

pletely identical system

throughout the world, due to restrictions on imports in some countries? Korea, for instance, protects its computer industry by forbidding the import of IT equipment if similar kit can be

VAT recovery can be a big part of an ITS contract. Most countries impose VAT, one

US. But VAT can usually only be recovered locally. If a customer insists on all invoicing being done centrally, VAT will not be recoverable in any country except that where headquarters is based. If ITS can

arrange for each local office to be invoiced, then that local office will be able to reclaim VAT from its government. The difference can account for up to 25 per cent of the cost of a Knowing the duty variances

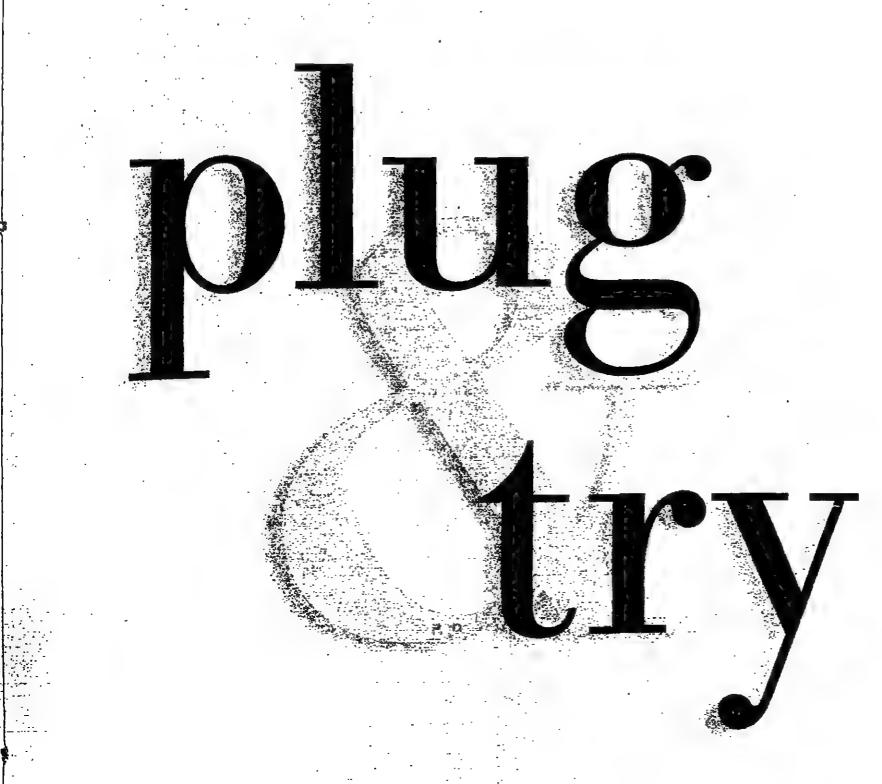
in each country is also important, "If telecoms equipment is imported into the US, for example, duty could be 5 to 7.5 per cent higher than for computer equipment," Fournier to deal with local requirements explains, "so, if possible, we send equipment as computers

Legal requirements and other legislation, such as health and safety laws, must also be taken into account.

ITS ensures all of these factors are covered through one of its 22 project managers and its PDK (Project Delivery Kit), which sets out what has to be done, and how, in and for each country.

One project manager is assigned to a customer to facilitate provision and delivery of equipment worldwide, pulling everything together in the same way that a conductor manages an orchestra. The project manager, in turn, relies on regional project managers

Continued on next page



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Interview with Robert Madge . By Paul Taylor

An unlikely entrepreneur

With the surge of interest in networking, the Madge group has been growing at an average of almost 80 per cent a year

chairman and chief executive of Madge Networks, is an unlikely high technology entrepreneur. A quiet spoken, somewhat enig-matic Englishman, his background before he became one of Britain's few successful technology pioneers included spells as a riding school instructor, architectural journalist and chess computer

Today, he runs one of the most successful networking companies in the world and has become a passionate advocate for asynchronous transfer mode (ATM) technology which he believes will power the next generation of multimedia networks carrying voice, video and data to the desktop

"A'TM is likely to revolutionise the computer networking industry and the boundaries between computer and telecommunications networking." says Mr Madge.

Equally importantly, he believes that Madge has the strategy and 'product roadmap' to enable its customers. "to protect their investment in existing networks while ensuring a smooth and cost-effective transition to the ATM networks of the future".

However, when he founded Madge Networks in 1986 using his Buckinghamshire farmyard stables as office space - he had little technical experience of networking. But as technical director and general manager of Intelligent Software, a UK software house and silicon chip designer, and general manager of Enterprise Computer, a PC manufacturer, he did understand the industry

and chip design, in particular, This was an important asset since much of what Madge does involves designing lowcost silicon chips to switch data streams at high speed. His aim in starting Madge Networks was to accelerate the introduction of networking to link PCs together and build his company into the world number one in switched networks. overtaking established leaders such as Cisco and Bay Nettional basis."

obert Madge, founder, works. "Information is the raw material upon which organisanet, the industry standard technology. What Robert Madge realised was that Intertions build their business." notes the group's latest annual national Business Machines "How efficiently and cost-effectively an organisation shares information - both internally and externally directly impacts that company's success. Computer netequivalent of a global delivery service - providing critical

nology changes rapidly, Madge Networks could improve upon While many other companies spotted the opportunity for IBM's own product offerings. building networking equip-The gamble paid off. Madge ment, most focused on Ether-

is second only to IBM in terms of shipments of token-ring networks and last year posted sales of almost \$400m. Thanks to the surge of interest in networking, internetworking and almost 80 per cent a year.

In November, Madge bought Lannet, an Israeli networking company for \$300m in an all paper deal which gives it access to switched high-speed Ethernet technology - seen as a stepping stone on Madge's corporate ATM roadmap.



market capitalisation of nearly \$2bn, giving the group the financial muscle to enter the mergers and acquisition business to fill out its product portfolio or acquire new technolo

As a result, Madge can now

offer its corporate customers both switched token-ring and switched Ethernet which are both seen as staging posts on the way to ATM. Madge bought Lannet rather than try to develop its own Ethernet technology, mainly because of the time it would have taken.



Always the unexpected

like moving house: if any-Lithing can go wrong, it probably will, and the total cost somehow always adds up to more than the apparent sum of its parts.

For although a network may not suddenly display rising damp, it does hide a myriad of potentially expensive requirements of which no-one, least of all the board-membe authorising the purchase, is likely to be aware.

As a result of these deals, Take the software, for Robert Madge believes he has positioned the group to instance: cash outlay for purrespond to customers' desires to move towards ATM, but chasing licences only amounts to 14 per cent of the overall lifetime cost of comwithout abandoning all of their puting, according to Patricia investments in existing net-Ryan, European general man-ager of WRQ, a software Madge Networks' customers house specialising in network generally recognise Lan

switching of token ring and the connectivity products. "Ongoing support costs account for 45 per cent of the Ethernet as the fundamental building blocks necessary to total," she says. "To maintain a large network environment. efficiently into ATM. Switching, says Mr Madge, provides the logical and evoluthe customer has to run a help desk. If it decides to tionary course towards fully ade software and it has, say, 250 PCs, the cost in terms switched networks - tackling of manpower to upgrade those shortcomings such as congetion and performance degreda-PCs and support the desktop tion in existing networks, user can run to as much as

while providing a natural con-125 man hours." WRQ believes that support nection point into ATM. per 'node' (PC) in a local area Directions in ATM and multinetwork (Lan) can reach \$1,200 (£784) - or \$300,000 for a media: see reports, pages 9-11

nstalling a network is a lot 250-user network. By these figures, support costs will exceed the price of the desktop system within three years. The desire to save money

can itself lead to more expense. "When installing a network, people often look for the cheapest product for each purpose," Ryan points out. This includes the cheapest PC, the cheapest database, the cheapest modern, and so on.

"But by doing so, the user is putting together a multiplevendor installation, which means more time and expertise - and therefore money must be spent on ensuring that all these different products from different vendors fit

Who pays?

"The interplay between products is important, but getting it right 'eats' time." And some of the most costly hitches come when something goes wrong: whose product is at fault? Which maintenance contract is relevant?

The cost in downtime and in fighting with the vendor to apportion ownership can be crippling," says Ryan.

Even the distribution and installation of software throughout the organisation can, according to a Gartner Group study, account for 17 per cent of total software

The rot can be contained: centralising purchases instead of letting each department, or even cach desktop user. decide what to buy, when and from whom will go a long way towards reducing expenditure and increasing efficiency. Not only will the problems of running multi-vendor systems be minimalised, but volume discounts, including blanket software licences, could become

Centralised purchases can also eliminate the problem of "over buying" software - buying packages which the company already owns and for which extra licences can be obtained cheaply. The Personal Computer Asset Management Institute in the US found that US companies, government and military organisations spent as much as \$2bn on software they

already owned. A range of software products exists to help central net-work control. WRQ's Reflections, for instance, enables the PC to emulate the host termi-- to pretend it is a Doc. IBM. HP or other server - to enable every desktop user to access all corporate data from anywhere in the network.

Metwork security . By Louise Kehoe

Big rise in hacker break-ins

worst, they are a serious threat

The risks of backer attacks

are more difficult to assess,

congressional investigators

found. Businesses are reluctant

to report intrusions to law

enforcement authorities "due

primarily to fear of the market-

place and of government",

according to a recent Senate

from customers - and the

stock market - if they reveal

their vulnerabilities, the report says. "Company insiders con-

firm to the staff that they have experienced intrusions on a

regular basis, but fear report-

other agencies that might ulti-

mately report them into the

industry surveys, however,

provide some measure of the problem. A group of leading US

computer security consultan-

cles, for example, identified

year among clients in the banking and telecommunica-

tions industries, with half the

es of \$800m worldwide last

ing them to the government or

Companies fear a backlash

to national security."

staff report.

Software tools used by hackers to detect vulnerabilities in computer systems are becoming more sophisticated and at the same time easier to use

etwork security is a rising concern for all Internet users, but in particular for businesses that link their internal networks to the public Internet, making them more vulnerable to potential hacker break-ins. The costs of network security are also increasing. Sales of security software and equipment are growing at about 40 per cent a year and are expected to reach \$1bm by the end of the

The window of opportunity in

the networking market, like

many others in the FT world, is

The acquisition of Lannet

was followed in January by the

purchase of US-based Teleos

Communications for \$165m.

Teleos, a private company, fills

too short.

This, however, is only the beginning because businesses and organisations need the services of computer security professionals who can constantly monitor and update systems to close security loopholes as they are discovered.

By some estimates, one computer on the Internet is broken into every 20 seconds. US Defence Department computers containing non-classified but sensitive data were attacked approximately 250,000 times last year, according to the Defence Information Systems Agency, a Pentagon computer security force.

n an estimated 160,000 of these incidents, hackers succeeded in penetrating

the computers. "Hackers have stolen and destroyed sensitive data and software. They have installed back doors' into computer systems which allow them to surreptitiously regain entry. systems and networks." said Jack Brock a director of the General Accounting Office, the investigative agency of the US Congress, in Senate testimony last month.

"At a minimum, these attacks are a multimillion-dol-

Global networks

Continued from previous page

and ensure someone is always available, regardless of time

All components of the net-work are delivered to an ITS staging hub in the UK, France, Germany, Holland, New York or Singapore. ITS can then gather all equipment before it is sent to each site, and set up a simulated workstation to ensure the system works before it is rolled out live.

Site installation may reveal problems which require local presence and knowledge. Firstly, cabling has to be installed before the rest of the equipment arrives, and this must be done according to local building regulations.

Requirements from local PTTs must be understood, as various countries have different rules as to what equipment can be connected to the telephone network. There may be labour laws requiring union staff to install cabling or other equipment and training may be required for the customer's local staff.

It is this local knowledge that gives a personal 'feel' to the biggest of multinational network installations.

losses in the US. More than half of 250 US information security managers polled in February by the National Computer Security Association (NCSA), a US lar nuisance to Defence. At industry group, said they had experienced Internet-related security breaches in the past

> The Computer Emergency Response Team at Carnegle Mellon University in Pennsylvania, says that the number of computer security incidents is growing as fast as the number

'One computer on the Internet is broken into every 20 seconds'

of host computers on the Internet. Each year, CERT has seen a big rise in the number of security problems. In 1988 there were only six incidents reported to CERT. Last year

there were 2,412.
Part of the problem is that the software tools used by backers to detect vulnerabilities in computer systems are becoming more sophisticated and at the same time easier to use. Programs such as Satan

(Security Administrator Tool for Analysing Networks), which was distributed freely over the Internet last year, can be used by individuals with very little expertise to break into a computer network.

Similarly, Rootkit is a series of free software tools developed by backers that allow an intruder to gain "root access to networks and claim the security status of a systems administrator. Someone with root access can read, alter or destroy any data on the net-

Even as backing tools become more effective, however, there are increasing numhers of companies with little expertise in computer security linking their systems to the

A survey by the Computer Security Institute, of San Francisco, found that more than 30 per cent of Internet sites in its sample lacked a "firewall", a: program designed to prevent intrusions. This is an invitation to trouble, computer secu-

rity experts warn. Even systems with firewalls can be broken into, however. Security experts say that many. of the firewall programs on the market offer little defence against a determined backer

Continued on facing page

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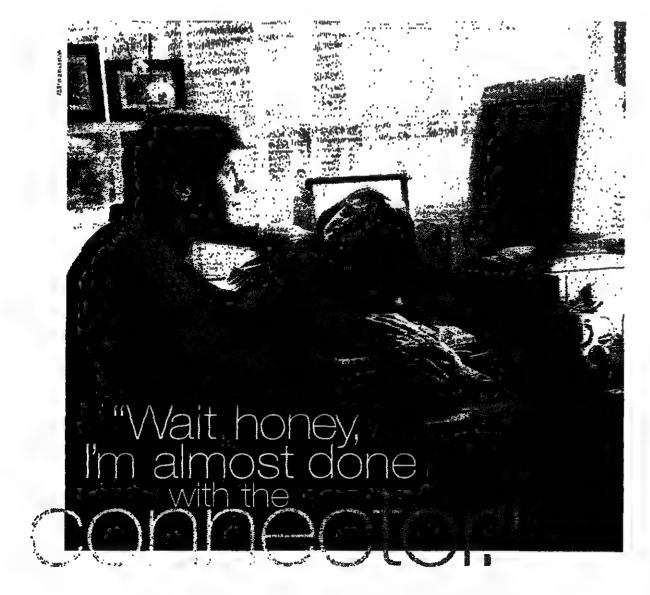
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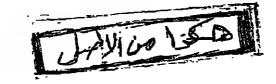
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Socurity Issues

Rise in virus infections

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Moreover, to be effective, firewalls must be regularly updated as backers develop new methods of attack. Systems administrators must also keep pace with a constant stream of "upgrades" and "patches" issued by computer and software companies in response to the latest hacker

Computer viruses - rogue programs that can disable a computer or destroy data - are another aspect of the problem. Sometimes planted by hackers, but more often introduced unwittingly into a computer network by a regular user, viruses are costing businesses billions of dollars in reduced productivity and direct losses.

infections have increased almost ten-fold in corporate America over the past year, according to an NCSA study published earlier this year. NCSA estimates the costs of viruses to US companies and organisations will rise to between \$2bn and \$3bn this year, up from about \$1bn last

Another important element of network security is encryption. By encoding electronic mail - whether it be a private ge, a purchase order or a credit card number - computer users can ensure that even if their files are stolen or intercepted they will not be read-

Currently, the US software industry is lobbying Congress that prevent the sale of strong encryption programs outside the US except in special cir-

Authentication systems that ensure messages or documents passed over a computer netvork are genuine and have been sent by the person or company that they purport to come from, are also expected to pecome a standard feature of data network communications. particularly in electronic com-

Even as new security systems are developed, howways to circumvent them. Maintaining the security of data networks appears likely to remain a difficult and expenCase study: European Bank for Reconstruction and Development

Intranet transforms communications at international summit

The EBRD deploys an Intranet at its conference in Sofia, Bulgaria, writes Rod Newing

he European Bank for Reconstruction and Development was founded in 1991 to help the east European and former Soviet Union countries in their transition to market economies. Each year it brings together industrialists, financiers, govemment, economic and finance ministers and journalists to meet and discuss issues which are particular relevant to private sector development in the

The bank deployed an extensive Intranet at this year s international summit in Sofia. We provided electronic mail to our delegates at last year's conference in St Petersburg, says George Kurczij, IT client services manager at the EBRD.

"The facility was more successful than we ever imagined, so we wanted to expand it this year. However, as we had no funds we had to invite sponsors to come in with us." The Intranet was built as an

international collaboration between several sponsors. Microsoft provided Windows 95, Windows NT Server, Microsoft Exchange, their recently launched Internet Information Server, Internet Explorer browser and Microsoft Mail messaging system, as well as expertise and development

Wang/BISS undertook the development work, which integrated the Microsoft products with an Oracle database, the Novall network operating system, PCs from a Russian supplier and cabling supplied by a Bulgarian telecommunications company. "The whole system was designed and tested in ten weeks," says Mr Kurczij. "Time was of the assence, but everybody was committed. Integratsive problem for years to come. I ing the different multi-vendor



ages were generated on the system in three days

products proved to be quite a challenge. Another problem we faced was that Microsoft's Intranet products were still in the beta form, so there was little experience available on the most effective way to deploy

"We would love to have set the network up in advance, but there wasn't an opportunity. All the elements were thoroughly tested and then shipped to Bulgaria. We had five days to set up the network at the conference location."

Easy to use

There were 40 terminals provided for conference delegates - "it felt a bit like the first Apollo moon shot. We tested all the elements and then trusted that the system would work first time," he adds.

There was no opportunity to train users, so the system had to be very sesy to use. Delegates signed on with a bar-code on their badge and were greeted by an image of themselves, scanned from their security photographs and retrieved from the Oracle database. The intranet allowed delegates to browse for informalations, find out more about government schemes for funding, access the on-line confer ence newspaper and seek potential partners and contact them through the integrated saging system.

"We had delegates queueing to use the system between sessions," recalls Mr Kurczij. "The most popular use was to allow participants to mail each other so that they could arrange to meet to pursue business opportunities. This is where the scanned images were so useful in allowing them to recognise each other.

The delegates generated 20,000 messages over the three days of the conference.

An information system has become an established feature of our international summit." says Mr Kurczti, "The Intranet has given us a good start and has been a proof of concept of what can be done. We will develop it and enhance it next year. We will also build an Intranet in the Bank."

The e-mail address for George Kurczij, IT client services manager, European Bank for ReconMarketplace alliance in IT services . By Nuala Moran

he US investment bank J P Morgan has created a new model for outsourcing by inducing compet-ing suppliers to set up a consortium to manage parts of its

The terms of the seven-year, \$2bn contract, require the four suppliers not just to provide specified, discrete elements, but to work collaboratively. sharing their resources and technology, to deliver a seam-

lass tervice.

Apart from managing activities that represent about a third of its \$1bn annual IT spending, the bank says the deal will give it access to the technological expertise of all the partners to support new business and product develop-

In effect, J P Morgan will be 'having its cake and eating it" getting companies that competed for the recent contract, and will compete again for the next – to suspend competitive instincts and pool resources m its behalf.

The parties to the deal, Computer Sciences Corporation (CSC), Andersen Consulting. AT&T Solutions and Bell Atlantic, have set up the Pinnacle alliance with J P Morgan as the collaborative rehicle to run the contract. Pinnacle will manage the

bank's data centres in New York, London and Delaware, distributed computing operations, including desktop computers and local area networks, and voice and data centres in New York, Delaware, London and Paris, and some corporate applications in

Jean-Michel Deligny, principal of the consultants Broadview Associates, says: "The way this deal is structured will enable competitive tenslops to be overcome. Although the collaborative element is being stressed, in fact responsibility for particular parts of the infrastructure is defined by the contract."

The 900 employees (45 per cent of the bank's total IT staff) working in outsourced areas are transferring to the supplier companies, though JP Morgan did not reveal how many will be allocated to each. The bank expects to cut its IT costs by 15 per cent over

Peter Miller, co-head of cor- The world headquarters of J P Morgan in New York

A new model for outsourcing

Supplier companies suspend competitive instincts and pool resources to deliver 'a seamless service' for US bank

gan says: "We want world-class capability in all areas of technology. While we had some ourselves, it is not realistic to think we could be best in all areas. By the same token, no one supplier can meet the growing technology needs of our global business." challenge to the marketplace

J P Morgan threw down a to come up with a joint bid. "Our idea was to push suppliers' thinking to see if they could come up with a best-ofbreed approach," says Mr

John Mickel of CSC was responsible for bringing together the team members to bid for the Morgan contract. Mr Mickel, now the lead executive of Pinnacle, says "the alliance marks a new approach in providing sophisticated technology support services."

Whatever the hype, or the aspirations, on the face of it this deal looks like a tradi-

contractor agreement, with CSC as the lead company. All members of the Pinnacle Alliance will remain on the payroll of their original employ-

However, Mr Mickel claims it will not be a case of each company delivering its part of the contract with CSC overseeing the whole, "Staff will work exclusively for the alliance, and will be formed into cross-company, multi-disciplinary teams. Everyone involved will have Pinnacle

on their cap badge," he says. This perception is shared with the other partners. Stephen Racciopo, a regional manager for financial services at Andersen Consulting says: "There are real and important differences between a prime and subcontract deal and Pinnacle. We have an agreed a set of principles, on how we oper-ate, and how we share people

and knowledge."

binding, but Mr Miller argues that, in any case, it was not necessary to do so - "there is a lot of peer pressure to behave well. In this alliance it will not be accepted behaviour for people to do finger-point-

Executives from each of the suppliers will have equal access to senior people in J P Morgan through the alliance's operating team. This team will be responsible for allocating resources and managing

the activities of the alliance, "The formation of a management team, made up of key executives from all the compa-nies, is a 'first' for a technology services agreement, claims Mr Mickel.

The companies believe that the equal standing they have in the operating team, along with the principles, will smooth away competitive fric-tion. "We will share risks and rewards. We all recognise that the real value will come from us being willing to reach into our collective knowledge,'

says Mr Racciopo. He accepts, however, that this deal does imply some loss of control. "Obviously there are competitive implications of, say, sharing software tools. But we do have intellectual property rights, and we also look at any risk from the leaders because we stand

Whilst they have risen to J P Morgan's challenge to collaborate, the companies do not want this deal to be read as an suppliers cannot meet the outsourcing requirements of multinational companies.

"Not every client would want an alliance," says Mr Racciopo. "Collaborating on this deal does not affect our ability to deliver a full range of services to other custom-

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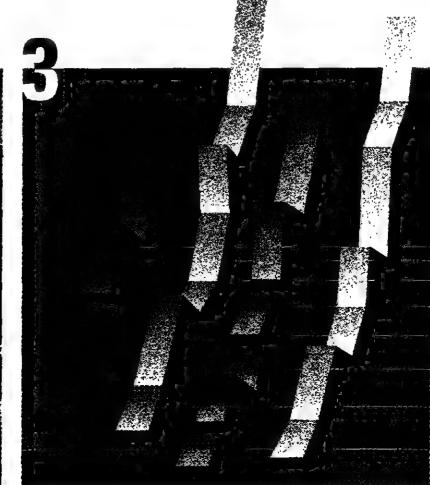
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Siemens Nixdorf: User Centered Computing

Crest: electronic share settlement system

Not a moment too soon

The ghost of Taurus, the UK's abandoned system for paperless share settlement, will be laid to rest later this month when the new Crest equity settlement system goes live - delivered on time, and to budget

rest, the electronic securities settlement system, will usher in the beginning-of-the-end for share certificates, and comes just over three years after the Board of the Stock Exchange announced it was scrapping its attempt to eradicate paper with the Taurus computer settlement system.

Beginning on July 15, securities will be progressively translated from paper records, into an electronic format, or 'dema-

On August 19, the first transactions will be settled in Crest. The transition will culminate in April 1997 when the Stock Exchange's Talisman settlement system is due to go out of service, 17 years after it first

For the UK securities industry. Crest arrives not a moment too soon: all of its international competitors already have paperless settle-ment systems - "the UK industry needs Crest to stay in front," says Jain Saville, chief

The Transition Period

- Between July 15 this year and April 1997, registrare will face a huge data-input job as details of shareholdings are entered into Crest. A 'big bang' approach to beginning Crest operations was ruled out as too risky. But Crestco wanted to minimise the transition period to keep down the cost of running both Talisman and Crest - and to avoid the confusion for users of having to deal with both systems.
- In order to avoid building any links between Talisman. and Crest, transition will take place security by security. During the transition each security will be settled either in Talisman or Crest, not both.
- Once settlement has transferred to Crest for a particular stock, it cannot be settled through Talisman. This means all industry participants will have to be ready to use Crest from August 19.
- Although the Institutions are keen to read the cost savings of moving to paperless trading, until smaller shareholders can be weaned there will still be a large volume of paper in circulation.
- Creatco expects about 90 per cent by value of settlements to be electronic by the end of the transition period, but a much smaller percentage by volume. Dealings in any securities that have not made arrangements to settle in Crest by the time Talisman is: switched off will have to settle through movements of ... paper between buyer and seller.
- For shareholders of equities handled by Crest who choose to stick to paper, share certificates and transfer forms will be moved from stockbrokers to registrers, with the movements co-ordinated with the electronic instructions. The haulage company TNT has established five centres in the UK and Ireland to provided a dedicated service to Crest.

pany set up by the Bank of England to establish and run the Crest system.

"Having an outdated settlement system is like letting the sewers rot: people cope, but efficiency decreases."

The previous attempt to introduce electronic settlement was overwhelmed by the tech-nical and political imponderables, as the Stock Exchange struggled to accommodate all the requirements, of all its members, into the functional specification of Taurus.

The resulting complexity and "requirements creep" was the undoing of Taurus, and in March 1993 the project was binned. The City still needed a new settlement system, but it could not afford a Taurus 2. Responsibility for developing the system passed from the Stock Exchange to the Bank of England, which appointed a task force and gave it two months to come up with a new proposal

The task force proposed a technically simpler architecture - a basic settlement engine with none of the frills that hobbled Taurus. But perhaps more significantly in winning acceptance, while Taurus would have forced shareholders to give up their paper share certificates, Crest does not. Shareholders who choose to keep their share certificates will be able to buy and sell shares in exactly the same way as they do today.

Although paper-backed transactions will be more expensive. Mr Saville said this is not deterrent pricing, but a reflection of the extra costs of handling paper.

Following approval of the task force proposal, the busi-ness requirements for Crest were finalised in May 1994 and the development of the software, (with the development process sudited both by the Bank of England's internal auditors and Price Water-house) was completed by December 1995

In that time, Crestco grew from six employees of the Bank of England, working on the Bank's premises, to a staff of more than 120 with offices

The Crest system runs on Tandem Himalaya computers. Network security is para-Rather than operating them. mount and one of the key Crestco has outsourced care of requirements was the ability to the machines to Hoskyns, part authenticate messages, so that of Cap Gemmi Sogeti, the com-Crest is confident when transputer services company which ferring securities or creating employs 20,000 people in 15 ing on valid instructions, Two dedicated computer cenissued by the legal owner of tres have been set up in Vauxthe securities.

access to the system.

run and, if it makes a profit, users will get a rebate. As the Stock Exchange currently has an income of £55m a

How Crest works

European countries.

The system can

transactions a

day. Network

hall, London and Greenford,

Middlesex. The system is

designed to settle up to 150,000

transactions a day, involving

scalable, allowing extra pro-

cessing power to be added as

required. The Crest computer

will be available 99.5 per cent

of the time - in other words it

is allowed 10 hours downtime

Similarly, rather than setting

up and running the networks

to link in the users, Crestco

has drawn up the specifica-

tions and designated two

security is

paramount

up to 5m accounts.

The Himalaya proce

settle up to

150,000

 Crest will respond to electronic messages from members to transfer stock between accounts. It will authenticate the messages and compare the instructions input by the buyer and the seller - and match

 On settlement day, it will check the availability of stock and cash in the Crest members' accounts, and move the stock from the saller's account to the buyer's. The buying member's bank will be instructed to pay the selling member's bank and will be unconditionally obliged to do

 Crest will notify the stock's registrar who will commit to register valid transfera within two hours of the electronic transfer within the system.

 The contents of each member's accounts on the register, and in Crest, will be a mirror image of each other.

Each user in Crest will access the system via a gateway, which will be, at a minimum, a personal computer. This will transfer data from the user to Crest, and support

Mr Saville says the decision to outsource was "a question of focus". The Bank of England team at the core of Crest had experience of designing and building paperless settlement systems - "we decided early on to strip out things where we had less experience, and hand them over to suppliers who

The total cost of development and getting the syst running to full capacity will be under £30m. (Although, never officially acknowledged, the outlay on Taurus is said to Crest will cost £18m a year to

year from the Talisman system, the securities industry will see its processing costs

existing Talisman system, But that is not all: by moving to rolling settlement (where all transactions are settled a set number of days after they take place), and delivery do their own analysis. versus payment, (where the shares and the cash are

Too hats everywhere: the London Stock Exchange in 1880

Crest has been financed through the private sector, with 69 member-firms contributing £12m in equity, and a £17m borrowing facility.

exchanged simultaneously),

Crest will reduce risk, and

more significantly, put the UK

industry on the same footing

as its international competi-

Despite putting up the money, the shareholders have no voting rights. Their views are represented by a steering committee, but full control of the project has remained with the Bank of England. This has enabled Crestco to decide on a functional specification and stick to it - unlike Taurus, where the Stock Exchange was running to keep up with the often-conflicting requirements of its members.

There have been criticisms that in avoiding the functional overload of Taurus, Crest has become too skimpy. Indeed,

there are some functions in the notably report generation, that are not available on Crest. Instead, Crest will supply users with the raw data they need to

Another criticism is that there are no links to the Seaq trading system. Rather than The total cost of

development and getting the system running to full capacity will be under £30m

trades being transmitted direct from Seaq for settlement, they must be input to Crest by the parties to the bargain.

While acknowledging that some users would like a single input, to a trading system, Mr Saville argues that only the legal owners, or their agents, should be able to move assets around

However, details of all trans-

actions will be transmitted directly from Crest to the London Stock Exchange to allow it to police the market and ensure that trades and settle ment data marry up.

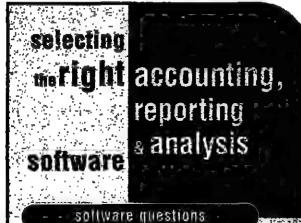
Sharcholders in Crestco will be able to dictate future enhancements, as control of the company will be handed over to them once Crest starts

Meanwhile, Mr Saville is confident it will start on time" and that there will be "no alterations" to the transition timetable.

His confidence derives from the progressively more sophisticated trials that have been taking place over the past three months. These beam on March 11 - just one hour behind schedule - with the 25 registrars that are responsible for maintaining company share registers. Following this were full scale trials involving all 260 participants in the system completed at the end of June,

But Mr Saville is not crowing about delivering a UK equities settlement system when the Stock Exchange failed to do so - "I don't regard it as some sort of triumph, just as a piece

of good management," he save.



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I Issues and options . By Nuala Moran

Strategic IT development by the securities industry

Crest will put the industry on a new IT platform that can support wholesale changes in the way it operates

deliver the system at the centre of the UK's new paperless equities settlement system has been matched by the efforts of the user-companies to link their computers to Crest.

Of two possible approaches: take what you have got and plug it in: or replace your entire settlement system with one built to be Crest-compliant, only the broker Hoare Govett has taken the latter option. In part, this is the failure of

Taurus casting a long shadow many companies spent heavily on developing systems to link into this earlier attempt at an all-electronic system, money which was wasted when the Stock Exchange scrapped the project in March

"More important though, is the high overall cost of replacing existing settlement systems with new Crest-comoliant ones," says Peter Little, managing director of the finan-cial software company, Braid

It is also enormously complex and involves every corner of the organisation - "there

he spotlight may be on must be a wholesale change of Crestco, but its work to business practice and, for this reason, people are choosing to move existing systems to Crest. However, they see this as Stage 1 of a larger process," says Mr Little.

Braid has installed Crest systems for 12 companies including registrars, custodians and brokers. Gerard Kenny, of the soft-

ware house TCAM Systems agrees: "Many Crest particlpants have selected tactical, relatively cheap, front-end solutions to connect their older settlement systems. While opting for the less

complicated option of keeping existing systems, some companies have invested in very sophisticated front-ends to handle interactions with Crest "this minimises the number of changes they need to make to their host computers, at the same time as allowing them to get the maximum benefits from the introduction of Crest," says Mark Freed, sales manager of Citymax.

The company has supplied its front-end software, called Arrow, to 20 Crest users. It also

Not a computer screen in sight: 29 years ago, jobbers and brokers throng the London exchange in June, 1967

has good insight into the trials which, it says, "went well".

Mr Freed expects the succassful delivery of Crest to prompt a wave of investment new settlement systems. "Most of the industry is working on systems that are 10 to 15 years old, but they don't want to change them before Crest is bedded-in."

Mr Kenny agrees that a lot of companies have delayed upgrades until they have digested the move to Crest: The more important strategic decisions will be taken once Crest has become 'a known quantity' and extends the range of services currently being offered."

ne such issue will be deciding whether to amalgamate equities and gilts' processing systems when the Bank of England upgrades the Central Gilt Office to run on Crest software next year. Although the two systems will continue to be separate, it will be possible to access both through one gate-

This example highlights the fact that while the safe delivery of Crest may mark the end of a saga, it is the beginning of a new phase of strategic IT ents by the securities

industry on a new IT platform that can support wholesale changes in the way it operates. Examples include links from Crest to other international settlement systems, or using Crest to handle other instruments such as unit trusts.

Isin Saville, chief executive of Crestco, says that enhancements to Crest would also allow the owners of the company to capitalise on their investment - "the cost of putting more husiness on to Crest is marginal, and so it would make sense to enlarge the scope of the instruments settled in Crest, and to enrich the range of facilities".

Mr Little agrees. "The lack of functionality in Crest has been an issue, but I believe it should be seen as positive. The industry now has a solid foundation; and can move on very rapidly and with confidence.

The challenge to the securities industry will be in agreeing how to develop Crest once it takes over control of Crestco from the Bank of England, later this year.

"There is already a wish-list of enhancements as long as my arm," says Mr Freed. "There must be someone strong at the top to take the enhancement drive forward, or it will all



nes Capal in London

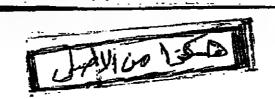


xious moments in 1987: dealers on the floor of the London Exchange watch information screens as prices fall

Crest and the private investor

The next issue of the FP's Quartery Review of Passingle Finance - to be published with the LIK edition of the newspaper on July 19 - will look at the impact of thest for the private investor.

Crest will save millions for the big institutional investors but it could make life more expensive for make private investors - particularly those who decide to being only their share certificates in theory, the move from place to an electronic settlement system should our costs, not put them up. Sur there are a number of reesons who may private investors will find themselves worse all once is fully up and running next April



Ameni system

High risks in the race to market

Aducational products . By Michael Dempsey

Publishers are discovering that the development of CD-Roms for the 'edutainment' market can be a costly business

the UK's First Informa-tion Group, FIG, went to market in a flotation that raised £6m from institutional FIG was formed in October

1993 and only released its first CD-Rom in November. This was an interactive educational product aimed at guiding viewers through the origins and progress of the First World War. As a multimedia product it contains interviews with historians, 25 minutes of archive film and a series of storylines which the viewer can select. Priced at £29.98, it was the first of FIG's current catalogue of seven CDs.

Eugene Miskelly, joint chief executive of FIG, is predictably bullish about his company's future - "this market is starting to explode," be says. His confidence is based on the proliferation of CD-Rom technology. The drive to run a CD-Rom, with the necessary sound and video cards, has only become a standard PC component over the last two years. Prior to that, a CD-Rom drive was an expensive add-on. Optical Publishing Industry

Assessment, a report from US group Infotech, talks of a huge market for its members' products, with multimedia home computers boosting the population of CD-Rom platforms to more than 400m worldwide by the year 2000. It follows that the number of programs sold to exploit this capability must run into billions of units.

"Edutainment", the awkward mouthful that characterises product lines from companies such as FIG. will account for 50 per cent of worldwide sales of consumer software by 2000, the OPIA says. These are the kind of statistics that could have every software house in Europe and North America rushing to launch titles - but this could be a costly mistake.

Tim Ashley, managing director of Wicked Web, an Internet

n March 25 this year Web advertising, has studied the UK's First Informative rush to CD-Rom. He warms that while money can be made, the only areas likely to be safe are in established markets such as the serious educational sector that FIG has targetted.

"A lot of traditional publishers are not making money out of CD-Roms," says Ashley. He believes that when the development budget, as high as £250,000 per title, and packaging and distribution costs, accounting for 20 per cent of the price tag, are taken into account, it is too easy to lose money in the race to market with multimedia titles.

Miskelly is well aware that



Miskelly of First Information **Group: builish predictions**

the nature of multimedia, coinbining voice and visual images with text, makes it totally different from book publishing. And he says Ashley's estimate of title development is on the low side: "We spend up to £500,000 on each title. It's a labour-intensive exercise - up to 20 people can be involved."

The very attraction of a multimedia product introduces extra costs: rights for pictures, text, film and music all have to be paid for.

Ashley recalls fitting out a PC built around the now-outdated 386 chip, with multimedia facilities. "It was four years consultancy, specialising, in ago. I put sound and graphics



Directions

£100 and the CD-Rom drive

Ashley produced his multi-

media at what was then a very

good price, because he was

willing to install the compo-

nents himself - "this exercise

still involved hours and hours

of endless hassle". Today that

capability is inherent in most

The home market for PCs -

often ourchased for their edu-

cational value - is also driving

CD-rom sales, says Pilar Cloud,

general manager of Broder-

bund Europe, part of the \$117m

US software group that created

Living Books to exploit the

Living Books subsequently

became a joint venture, divided

between Broderbund and Ran-

dom House, the largest general trade book publisher in the

English-speaking world. Ran-

dom House's contribution to

Living Books is its vast cata-

logue of titles that strike a

chord with parents who want

to introduce their children to

favoured authors via the latest

Cloud agrees that it is easy

to misjudge multimedia nub-

lishing. Having access to titles

on the Random House list is

one way to even the odds;

heading straight for the big-

multimedia units worldwide, a

very high proportion of those,

say 90 per cent, have been in

Costing between \$40-\$60,

these English language titles

are at the core of profits made

in this sector, FIG knows that

international distribution is

important, but in this business "international" means the US,

Ten per cent of the UK com-

pany's 110 staff work in Bos-

ton, pushing its "edutainment"

line into a market that does

not need technical amend-

ments to the product. Accord-

ing to Miskelly, translating a

CD-Rom into another Euro-

We've sold more than 2m

gest market is another.

the US," says Cloud.

in particular.

home multimedia market.

COSt £400."

Multimedia in education and entertainment

peen language costs around £40,000. Putting "talking heads" on a PC screen ha attracted the public, but it means that a mere translation will not be sufficient for FIG's proposed French, Italian, Hebrew and German editions: e-overs must be synchronised with lip movements when working in some languages.

Economics

Some companies are mastering the tricky economics of multimedia CDs. The \$199 Playstation, a system dedicated to playing the most advanced video games on CD, has been credited with transforming Sony's corporate loss of Y220.9bm for the year to April 1995 into a profit of Y138.2bn at April 1996.

EDS, the computer services giant, has launched Media Vault, a service for companie that need to archive footage of images from film and TV sources. The advanced database software involved means Media Vault can cost up to \$200,000. But the aim is to create an archive of thousands of hours of footage that can be scanned for retrieval in short

KDS knows there is money to be made here, but it is a relatively new area - "we are in the process of identifying the boundaries of this industry," says Reza Jafari, managing director for global entertainment media at RDS.

Part of that process will see players getting it wrong before the dust settles. Investors should look carefully before lesping into multimedia adven-



The Jason project: students ground the world took part this year in a tive, accordific underwater exploration in Florida Keys, in the US, via the first underwater world web site and "telepresence" link, provided by EDS. the IT services group, in pertnership with private industry

classrooms without any computers or with antiquated past seven years in educational machines. For example, many schools still have large numbers of Apple II computers, which are five to 12-years old. And at least 50 per cent of the US's 2.5m classrooms do not

Response

W Computers in the classroom . By Tom Foremski

US schools are at

skills for using them effec-

has succeeded in bringing

puters in the classroom, but lit-

tle is known about how effec-

tive computers are in teaching

basic skills - raising the ques

tion of whether the exercise is

simply throwing technology at

the educational challenges fac-

students with access to com-

puters do learn more effec-

tively, but little on whether the

help them in their future

studies or career choices. By

the time today's young stu-

dents leave school there will be

better computer platforms and

perhaps they will not need to

be familiar with the vagaries of

Microsoft and Apple operating

Late last year, Clinton vis-

ited San Francisco and

announced his Technology Lit-

eracy Challenge, urging busi-

nesses, industry and local gov-

ernment to "make a commitment of time and

resources so that by the year

2000, every classroom in Amer-

ica will be connected to the

The problem, however, is that computer-use in US

schools varies widely. The US

Department of Education

reports that the ratio of stu-

dents to computers is now

about 10 to one but there are

still hundreds of thousands of

Internet."

nter skills they learn will

There is some evidence that

ing US schools.

attention to the need for com

The Ciluton administration

tively in the classroom

the centre of a

drive to provide

computers

Several large US corporations have listened to Clinton's call to become involved in modernising US schools with grants of money, equipment, services and teacher training. Pacific Bell, for example, is offering cheap Internet access to California's schools. Other leading US technology compa nies are involved in projects around the US, representing hundreds of millions of dollars in donations.

have a phone line, let alone

multiple phone lines for Inter-

Some US corporations have realised they must go beyond simply pushing more computers into the classroom. US West Communications, a telecoms company, says it has

Bionex's NB-500/I notebook changes all that. Even the basic specification of the NB-500/I offers PCI Pentium power and a colour screen. And its modular design means that despite its small size and light weight, users benefit from a wide range of alternative configurations, including an optional CD-ROM drive This Notebook has been designed

to best the best in the world, matching the versatility and processing speed of much

Candini or 145-006 522 and Windows for Workgroups 3 21 on request White t is pro-feeded, it is supplied complete with program manuals and dis invested almost \$60m over the programs, donations of equip ment and services. It recently launched its Connected Schools initiative, which provides teachers with Internet access, and, more importantly,

"Our research showed some

training and support.

surprising findings about the usage of technology within schools. While computers are generally available, they are not fully utilised at the teaching level for students or to train teachers," says Jim Smiley, vice-president at US West. "Connected Schools will enhance the use of technology as a teaching tool by giving teachers access to curriculum building materials, increasing communications with other teachers, providing the ability to exchange e-mail messages with subject-matter experts. and opening the opportunity to participate in electronic confer-

ences and online training." Computer vendors are also angling for larger shares of the school market. Apple has traditionally held the lion's share of

but its lead is slipping as IBM PC-compatible vendors target this market. This competition is good news for schools in terms of discounts and financ-

Weak point

Although initiatives such as the one proposed by the Clinton administration are helping to bring computer technology into the classroom, school administrations are a weak point in the process. For examof Education, which represents the largest school system in the US, has been making huge cuts in the number of staff who oversee the training of teachers in the use of computers.

And local school administrators are loath to spend funds on computers, even though some estimates put the fouryear cost of equipping every pupil with a Pentium PC at just \$1 a day per student.

The issue of cost is most

important. School funding is at an all-time low in many districts, where it is a challenge to obtain money for textbooks, let alone high-tech items such as computers, modems and Internet access.

One way to decrease school costs is with used computer equipment. There are several non-profit organisations in the US that offer corporation tax write-offs when companies donate older computers to schools. The organisations will refurbish the computers and send them into local schools.

New technologies could also help by making computing more affordable. The network computer, for example, is a concept being widely promoted by Oracle, the database software company, and Sun Microsystems, the workstation manufacturer. These two have developed a specification for a network computer that could be sold for as little as \$500 and provide full internet access and the ability to run a variety of programs written in Sun's Java language.

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Larry Ellison, head of Ora cle, has spotted educational possibilities for the network computer and has teamed up

Continued on next page

Software Diner.



wants to join.

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market where the key factors to success are the level of service, speed, flexibility and the ability to provide products and services that meet our customers' needs, says Alberto Donis, Organisation and Systems Manager. "It's our Job to correctly identify new initiatives and then make them available as quickly as possible. Technology is critical. We sandarded on CA Datasses because it can take

> computing while protecting our CA-Datacom enables Diners Club to migrate to

us to discolation

client/server while leaving existing applications unchanged. It gives them full and -immediate advantage of the new rela-

cost-effective manner. "I have to give them credit," says Mr. Douls. "CA is helping us get to client/server faster than any of our competitors. In our business, that's like

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■ The Information Society • By George Black

Complications delay birth

Market access, regulation, and intellectual property rights are among the problems that governments will have to resolve before the new world dawns

year and a half after the Group of Seven minis-Lters' first conference in Brussels on the "information society", that brave new world still looks a fair way off

When it arrives, multimedia technology promises to deliver to the education and entertainment sectors many useful new systems, ranging from tuition by videoconference to online

Last year's meeting in Brus-sels of ministers of the group of seven leading industrial nations aimed to assist in the birth of the information society and the superhighway on

To create such a society, governments have to sort out a number of extremely difficult issues. The G7 Industrialists' Forum, linked to the Brussels conference and comprising around 40 leading companies involved in information technology, has published an

US initiative

Continued from previous page:

with Michael Milken, the former junk bond king, to form Educational Technologies, which will develop and market network computers to schools.

The huge growth of the Internet represents a great educational resource. For example, the Jason project (see previous page) allows students from around the world to follow the underwater explorations of a robotic submarine. Logging on to the Jason web site (http://www.eds.com/jason/ecm10000 .htm), students can see videos of the underwater explorations, follow the work of science researchers and ask questions.

The Internet could potentially bring the world's best teachers to students and lower educational costs. And it underlines the fact that it is the application that is important, not the focus on technol-

It covers the liberalisation of telecoms to introduce more competition and drive prices down, the opening of markets and an increase of free trade, and the establishment of crossmedia intellectual property

The 1994 report by European Industry Commissioner Martin Bangemann also listed encouragement of investment, open access to networks and data protection as key topics. To these many industry leaders would probably want to add data encryption and media

Among the main concerns of European governments is to ensure that the new world of multimedia is not totally controlled by US companies. They want to ensure that it yields a fair proportion of products based on European culture and European languages. They see an alarming precedent in the film industry, to which multi-

media is closely related. The G7's Brussels conference was followed by another in South Africa in May, extending the scope of the debate from the industrialised to the developing nations.

Meanwhile, the EU has launched a number of multimedia programmes and the Organisation for Economic Co-operation and Development (OECD) has also debated the

So there is no lack of high-level talk. The official bodies have also put in motion a number of practical initia-tives, from developing electronic libraries and museums to setting up a European education software taskforce.

Members of the European Commission are keen to establish an 'Open University for industry'; the Commission has nailed its colours to this mast by designating 1996 the 'Year of Lifelong Learning'. One of its main aims is to draw attention to the inadequacy of existing educational facilities for equipping people to cope with the fluid job market of the

Mr George Rall, head of corporate affairs at computer manufacturer ICL, says the EU's programme has been very positive. "But," he adds, "there are a lot of conflicting interests and there is no easy solution to the problems. There is still a

Following the lead of the G7 Brussels conference, the UK government in February allocated around £35m to an 'information society initiative', over

very large amount of work to

Under this initiative, a multimedia demonstrator competition was launched by the Department of Trade and Industry, with £3m prize money offered to the projects which best demonstrate the business advantages of multimedia products.

The DTI has also produced a set of multimedia case studies and plans to offer a number of creativity awards aimed at stimulating the development of digital products by businesses

hrough initiatives such as these, the barriers between sectors such as publishing, computing and broadcasting have begun to be proken down

But bringing together regulated industries such as telecommunications and broadcasting with unregulated ones such as computing and publishing is bound to cause some

Within the telecoms industry there are huge differences between countries. The US has meanwhile leapt ahead in deregulation with its recent lecommunications bill.

EU governments have bean directed by the European Commission to deregulate their telecom markets by January 1988. This requirement looks likely to be met by all memberstates, though some with reluctance, opening the door to more competition and lower

For the entertainment and education markets, maintaining the right balance between the national carriers and the new entrants to telecommuniextions such as the cable companies is also important. Partly as a result of lagging

lation. Europe has fallen behind the US in developing the multimedia industry. It has perhaps only a couple of years

in which to catch up before the

US starts to take the lion's

share of the profits. The European Commission struggling to shift the Union into a stronger position, has issued a consultative document on property rights and is at present studying a mass of comments from interested par-

Complex arguments are being conducted about the usefulness of software patents and the collection of royalties. They must be resolved as

Mr Philip Virgo, planning executive of Eurim, a group which monitors Europe's information technology policies. says that Europe needs to solve the property rights question within the next 18 months "otherwise the industry will migrate to where a legal framework exists, that is in the US,"

he says. Already much of the database publishing business has migrated to a more comfortable climate, on US host

Covernments on both sides of the Atlantic have expressed their concern that the benefits of multimedia should be widely spread and not divide societies even more sharply into information haves and have-nots. How to ensure this happens is another tough problem.

A blueprint may be the South Bristol Learning Network, a project which was designed to introduce the latest IT into an urban poor community previously deprived of

Some 6,000 people have been trained through that project, around 80 multimedia roadshows have been delivered to local organisations and the network is being cloned in several others places around the UK. It is planned to start a similar heme in Brussels and there is interest in the idea from all

The project indicates a poss bility of building the sort of superhighway that US Vice President Al Gore has championed, driven by demand rather than supply.

Wired-up home of the future

Exhibition brings together new systems for education, work, shopping and entertainment

I ultimedia - the abil-ity to mix and manip-ulate sound, words and pictures, and pump them down a single 'pipe' - promises profound change. Services already on offer, such as financial services transaction and information kiosks, shopping on the Internet, or telephony over TV cable networks, provide unconnected clues to the impact which multimedia systems will have on the wav

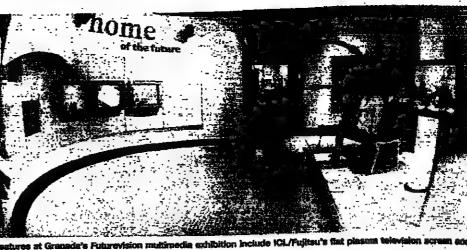
It is now possible to gain a view of what life will be like when all the dots are joined up' at Futurevision, an exhibition of a multimedia future set up in the north of England by Granada Television at its stu-

dios in Manchester. The exhibition, in celebration of the company's first 40 years, looks forward to the year 2056. Despite being opened by the famed futurist Arthur C Clarke, Futurevision is not about predicting future technology. All the technology and services on show - flat screen televisions, virtual pets, home shopping, exist now. What the exhibition reveals is what life will be like when these technologies are integrated, and commonplace,

"This isn't just a warehouse full of technology, It's designed to show ordinary people how multimedia will transform everyday activities such as shopping, learning and walking the dog," says David Stoves, business development manager for multimedia services at ICL, one of the main sponsors of the exhibition. Visitors to Futurevision can

'virtually' try on clothes, relax in an 'electronically smart' home, savour the joys of interactive TV and anticipate the demise of classrooms as we know them today.

The 'virtual classroom' at Futurevision shows how, through the power of multimedia, students will be taught by specialists around the globe, who will not just be lecturing



by satellite, but also setting project work and answering

Classrooms will be linked, allowing students in different schools and countries to compare notes and work collaboratively. The virtual classroom shows how adults will be able to use technology to keep their skills up to date, and to learn new ones. The Futurevision piano has a small screen inset above the music stand from which an electronic tutor will supervise as you practise your

As well as greater flexibility in learning, the reach of multimedia will increase flexibility on the 'where and when' of work. The mobile workplace nonstrates how multimedia will enable people to have exactly the same computing and communication facilities on the move as they do at a

In the Electronic High Street, customised fashion shows give shoppers a view of how they will look in the articles they choose, removing the draweack of home clothes shopping. Cross-store price comparisons are also available.

Naturally, all payments are electronic, and if funds are short, the bank manager can be charmed via a video confer

As the creation of a television company, Futurevision naturally emphasises the affects that multimedia tachnology will have on broadcasting. Visitors can become participants in the television show Telly Addicts, direct how they would like the plot to thicker in a crime saga of their choice, and sell shares and buy jeans via the wide, flat, high definition TV screen hanging like a picture, over the mantelpiece.

Initially, all this interaction is via a keyboard or a touch screen," says Mr Stoves. "But the aim is to update the exhibition as the technology becomes

available, and it will not be long before most of this equinment will respond to voice

Above all. Puturevision illus trates the way in which multimedia services will turn the home into fully wired-up sites for education, work, shopping and entertainment. It has also given participants food for thought on the joint business

M Multimedia research . By George Black

Pioneer projects

Among UK projects pioneering the introduction of multimedia to the world of education and entertainment is the Cambridge Cable interactive talevision trial. Meanwhile, a British Telecom trial is seeking to establish the potential market for multimedia services, based on interactive television.

The Cambridge trial, which began in 1994 and has no fixed date of conclusion, is being run by a consortium involving Cambridge Cable, ICL and Online Media (owned by Olivetti, through Acorn Com-

It is only one of a number of big multimedia trials going on around the world, but is probably unique among them in its sharp focus on the convergence of technologies.

It uses fibre optic cables to the kerb and coaxial copper

cable from there to the user. A (asynchronous transfer mode) link enables images to be

received in a few seconds.
A group of 90 homes, ten schools and three businesses is being used to test what types of new multimedia services cable. The trial's services manager, Alan Clarke, says the user group is not a basis for statistical conclusions but is "sufficient to bounce ideas and techniques off".

Participants have a choice of mes, films, BBC and Open University TV and radio programmes, news and documen taries, as well as a number of rotail and business services. All of these can be access

through a set-top box like a small video recorder, Later, the Continued on facing page

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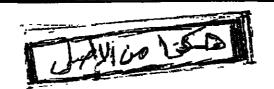
Best practice and the impact of new partnerships

How can retailers achieve greater cost efficiencies to enable greater expenditure on customer services initiatives?

The supply chain provides many opportunities for retailers to reduce costs to support enhanced customer services and lower prices. As retailers are looking beyond traditional logistics boundaries into the domain of the manufacturer, manufacturers are looking at raw materials suppliers in the same way. New initiatives such as Efficient Consumer Response (ECR) are further blurring the divisions between retailers' and manufacturers' supply chains. This new report details the latest developments and discusses the critical issues that any company must evaluate when redefining supply chain dynamics, drawing directly from the experiences of industry leaders.

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ATM technology and multimedia

M ATM (Asynchronous Transfer Mode) technology - Dy George Black Key to a high-speed future

While ATM offers rapid transmission for band services. the multimedia networks of tomorrow, its application has met with delay

The IT industry has been getting excited about ATM because it can send data, voice and video together at very high speed.

When ATM was first demonstrated in 1993, information was transmitted at 45m bits a second. Today, the IT industry has pinned its hopes on ATM (Asynchronous Transfer Mode) because it by far outstrips X.25 and Frame Relay in wide area networks, as well as Ethernet and Token Ring in local area networks.

Its standard speed is 155 megabits per second and its potential exceeds two gigabits per second. Large amounts of money are therefore being invested in ATM pilot projects

across the world. Networks will need ATM because most of them, from those of the international telecommunications carriers to those within small companies, are under severe pressure. They are short of bandwidth for their fast-growing numbers of users and ever more com-

The solution is a fast packet switching technology which offers bandwidth on demand. ATM is best able to deliver that, but it is still an emerging,

not an established, technology. This year was widely expected to be the one in which it would reach maturity and capture a large share of the networking market, but analysts have been revising their over-

☐ The US market analyst Forrester Research now thinks that ATM will remain a niche technology in Lans for as much as ten years, during which Fast Ethernet and Ethernet Switching will remain the norm.

A survey by ATM equipment supplier Olivetti found many prospective users felt the lack of standards and of skills were serious obstacles to adop-

A study last year by the Ovum consultancy found that telecom carriers were delaying implementation because they were worried about losing revenne from existing narrow

recently emerged alternatives of Fast Ethernet and Ethernet Switching have proved more

capable than expected and are delaying the move to ATM. Fast Ethernet, at 100 Mbps ten times faster than Ethernet, can unlike ATM be installed without greatly changing the infrastructure. Ethernet Switching widens the Ethernet channel so that more informa-

tion can be delivered at the

ATM is recognised by Lan systems suppliers as the best way for the long term, when those interim solutions become exhausted. Makers of Lan equipment such as routers, hubs and bridges are steadily incorporating more ATM capability into their new products. But at present the Lan market is still at the "early adopter"

Visualisation

There are few applications as yet which require the power of ATM," says Mr Mike Pil-beam, research director for network designer Cray Communications. "People setting up pilot projects find it hard to think of useful things that

ATM is ideal to support multimedia applications which must have guaranteed communications, such as medical

Mr Mark Phelan, European marketing manager for ATM equipment supplier Cascade Communications, notes: "It is applications, which require visualisation, which will drive ATM into the Lan, but there are not many of these at pres-

The ATM Forum, which has won general admiration for its pro-active approach, has been driving standardisation as quickly as possible and is spawning new acronyms at an

But, with a membership of around 500 companies, it is running into difficulties, both technical and political. Considering that ISDN (Integrated Services Digital Net-

work) took well over 20 years to achieve success as a public telecoms system, it is not surprising that ATM has fallen slightly behind its promoters' hopes. It is, after all, only 16

Mr Paul Trowbridge, European product marketing manager for Lan equipment vendor Bay Networks, says that standards created by the Forum in the past few months will help to stimulate the adoption of ATM as a Lan backbone.

He sees the establishment of a Lan emulation standard as especially significant. The Forum's User Network Interface (UNI) is gaining acceptance. The next steps will be to lay down the Multi-Protocol Over ATM (MPOA) and the Private Network to Network Interface (PNNI) standards.

Forecast

However, Mr Trowbridge concedes that, in spite of this encouraging progress, ATM will probably not reach the deaktop for five to seven years, In wide area networks

(Wans), the prospects for ATM are similar: good, but it will take time. Competition for the established carriers from new entrants such as cable opera tors is increasing and is forcing them to look at ATM as a competitive weapon.

The carriers are no longer an obstacle to the spread of ATM," says Mr Ken Davison, vice-president of marketing for Newbridge Networks, an ATM equipment supplier to the car-

Telecom Finland and in the UK Energia, are starting to deploy ATM in their networks and

offer services based on it. They are investing in it in the hope of saving money in the long term, as it should be a cheaper vehicle for delivering services than X.25 or Frame Relay. Some of them plan to move their current services, includ-

ing those based on the fast packet SMDS (switched multimegabit data service) and Frame Relay systems, on to an ATM core.

to consolidate their services on to a single infrastructure." says Mr Mark Phelan of Cas-

Cray points out, "no-one has cade. However, in the US, carriers are mainly adopting ATM yet built a large enough ATM for new services rather than network to be sure it works. There is still a lot to be learnt". for transferring existing services on to it. The massive growth of the

internet could prove a crucial The current wave of mergers and alliances among the carrifactor in accelerating the ers is likely to speed up the spread of ATM. adoption of ATM, according to Internet service providers Mr Davison of Newbridge, He says they will all need ATM in order to be able to offer faster and more powerful interna-

rather cautiously with their

are now in the process of installing ATM switches to cope with the fast-rising volume of traffic. "The Internet is potentially

the killer application of ATM the carriers are still proceeding that people have been looking for," says Mr Phelan. experiments. As Mr Pilbeam of

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Business application . By Gacre Black Scottish Power plans a large ATM network

The company hopes it will improve the response to customer inquiries by having a mass of information available at the operators' fingertips

Scottish Power is building one of the largest ATM networks in the UK at its Glasgow head

The company is the sole supplier of gas and electricity to southern Scotland and. through its recent acquisition supplier to Merseyside, Cheshire and North Wales. It is also a new entrant into telecommunications.

It is installing an ATM network for 1,700 users in three buildings at a cost of around £1m, based on switching equipment from 3Com.

The new network is part of a move from ICL and IBM mainframes to a client/server, distributed systems environment. which is being undertaken to help the business cope with rapid change and expansion.

Inquiries

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in April, a new customer service centre in Glasgow started to take over handling telephone inquiries from 1.7m cus-

This service involves highly graphical applications. Helpdesk operators can call down to their computer screens images of gas and electricity. meters, credit cards or domestic appliances such as washing machines, to help them deal with customers' inquiries. Later this year they will also have access to images of cus-

tomers' correspondence. It was realised that these new systems would demand huge communications power and compel replacement of

local area networks using conventional Ethernet structure.

The company therefore invited suppliers to bid for either an ATM or an FDDi (fibre distributed data interface) solution. FDDI is a token ring structure network running at 100 MBps, compared to ATM's 155 MBps. Mr Justin Leese, the company's network manager, says they knew that ATM was more powerful than FDDI but were not sure it was surprised that around a third of the 24 bidders insisted it was mature enough:

The solution chosen was an ATM-based bid by Workplace Technologies, a service company formed by a management buyout from ICL, the computer

Because of the risk, Scottish Power insisted that the equipment should all come from a single manufacturer to minimise compatibility problems.

It also laid down that there should be a failback FDDI option, paid for by the supplier, in case ATM failed to meet the requirement

The ATM switches will provide bandwidth-on-demand, or variable amounts of connection according to the volume of calls. Scottish Power hopes the new network will enhance its response to customer inquiries by having a mass of information available at the operators' fingertips. The network is designed to be easily expanda-

German researchers move to ATM: see report, next page

Several Moves Ahead



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Services on trial

Continued from facing page:

trial may adopt keyboards with infra-red communications to

Services for users are constantly changing: in April they were offered access to the internet through their TV sets. Mr Clarke says the project managers increasingly regard the internet, its subset the World Wide Web and interactive television as "parts of the same continuum".

Users are being offered Web browser tools as a front-end to interactive television to enable them to download whatever -Tutertainment or information they choose. They are also being offered links between teletext pages and the Web at the touch of a button.

NOP Research Group has been recruited to the venture to assess the users' attitudes to the services available. Mr Clarke says it is very difficult to predict from the trial what sort of education and entertainment services will be viable because the technology is changing so fast. But he is conlident that the experiment will help the participant companies to pusition themselves more effectively in the emerging market.

Another significant trial being run by BT - provides several contrasts. It also uses ATM transmission but adopts the already installed twistedpair copper phone lines. It is delivering services to users at two megabits a second via the ADSL (asymmetric digital subscriber loop) transmission system, which it save has proved "very robust".

BT reckons that its trial has offered the widest range of services of any such project worldwide. Around 2,000 homes and eight schools in Culchester and Ipswich, chosen to provide a representative sample, have been involved in the project, which was scheduled to finish at the end of

In this trial, the services have remained constant, the technology having been tested in 1994; users have been charged and prices have varied to assess their willingness to pay. BT will be studying the results this summer before making a decision on what services may be commercially viable. Analysts do not expect the general roll-out of these types of services to begin until at least 1998 and it will probably not become a substantial market until after 2000.

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DIA

IT companies in mid-life crisis

than 90 per cent of the big banks will be using the Net for

ose Fonollosa, general manager of BBV, one of Spain's largest and most

innovative banks, does not

see retail banks disappearing

the threat seriously.

to the deutist." he says.

tomer service and reduce the

costs of their branch networks.

In ten years, BBV has cut the

More casualties are likely as traditional IT companies battle against the new denizens of cyberspace

o today's IT companies gress. In two to three years, he have a future? It is not a question the industry predicts, huge amounts of money could be circulating on the Net that have no connecoften considers, but this year's IT World Congress, held last tion with governments' monemonth in Bilbao, Spain, caught tary systems. Peter Cunningmany companies in uncharacham, president of the US teristically pensive mood. market research firm Input, The Internet is largely to estimates 3 per cent of large banks currently do business on

blame for this mid-life crisis. Two years ago, when the last World Congress was held, the Net was an exciting new busi-ness opportunity. Today, it companies. Established software businesses see young upstarts achieve overnight success by offering free software on the Net. The traditional broad-based IT vendors fear many of their existing products and services will soon become obsolete.

Telecommunications companies could lose large chunks of their lucrative long distance voice traffic to Internet phone technology. For Nicholas Negroponte, IT gura and directute of Technology's Media Lab, this is just the beginning and the financial services sector could be next to succumb.

"In the next six months, we will see a lot more attention being paid to digital money, he told 1.200 delegates during his keynote speech at the Con-

Topics in the next FT-IT Review

issue will include the following main themes:

☐ IT Directions: Systems Support and Security.

☐ For more details of the September and October

reviews, see details of the Fax-U-Back service, on page

□ E-mati editorial inquiries: tamain.baumann @ FT.Com

G Focus on Computers in Finance.

Software: Accounting Packages.

□ FT on the Internet: http://www.FT.Com

☐ International focus: Singapore.

two of this current issue.

There will be no iT Review in August, but the September 4

functions from 25 per cent to 6 per cent of its workforce. That banks still have a future was welcome news for many in the Congress audience.

IT companies depend heavily on the financial sector and make handsome profits by encouraging banks to spend ever more money in a seemingly endless process of technological innovation. The benefits of this investment are often elusive - one anonymous the Net. "But their use is curthe extensive computerisation rently very passive, such as of banks in the 1970s and 1980s the biggest bank robbery of supplying information on prod-By 2000, he predicts more

Even information technologies companies admit that their users in the financial sector have not been well-served 'We commonly see that users are extremely frustrated with their IT investments," says Robert Gogel, vice president of the financial services division of Siemens Nixdorf.

overnight, although he takes The latest technology to disappoint is client/server com-"The problem is not the puting: five years ago, banks Internet, but the capacity of and other users of mainframe computers were encouraged to banks to understand their own scrap the "big iron" and downcustomers. In most countries, size to decentralised systems going to the bank is like going based on the client/server architecture which, suppliers Fonoliosa believes convenclaimed, made applications tional bricks-and-mortar banks can compete with virtual bankcheaper and quicker to ing by using IT to improve cus-

The reality is somewhat different, as Rosemary O'Mahoney, managing partner of Andersen Consulting, told delegates at a Congress session dedicated to this theme.

"Early expectations that client/server applications would be cheaper have turned out to not be well founded." she said.

The reason lies in the high cost of creating a support infrastructure to service the myriad machines and applications scattered through an organisation. Data warehousing has replaced client/server computing as the industry's favourite buzz phrase and it featured heavily in the presentations of leading vendors.

Jose Luis Solla, chairman of NCR for Europe, Middle East and Africa, presented data



and the use of digital money

that "enables a paradigm shift to the age of the consumer". vertheless, it was the Internet that grabbed most attention at the Congress and, in particular, its graphical section, the World Wide Web, which levels the IT industry's playing field by allowing any company, large or small, to mount a "shop window" and compete in cyberspace.

Mike Zisman, executive vice president and chief executive of Lotus Development, said: There has been nothing in the past 40 years that has transformed as much as the Web." Lonus knows only too well

about the Internet threat: in 1995, the company faced technical obsolescence and commercial oblivion as it suddenly realised it could not afford the cost of converting its proprietary Notes product to work over the Net. To fund the new development programme, it agreed to be acquired by IBM.

At the World IT Congress, Nicholas Negroponte said many IT companies had not yet grasped the revolutionary nature of the Internet because their middle-aged leaders are "less Net aware than the average American 13-year-old".

While these "digital homeless" remain in charge, more casualties are likely as traditional IT companies battle against the new denizens of

■ Profile: European Commissioner Martin Bangemann • By Geoffrey Naim Pace-setter on the infobahn

The IT industry is often accused by its customers of promising much and delivering little. Martin Bangemann's job, as the European Commissioner for Information Technology, is to ensure that Europe is not similarly short-changed by the digital revolution

uilding an information Society is one of the greatest challenges facing Europe in the next few years, according to Martin ann, but the transition will not be easy and the scale and speed of change threaten to catch many unprepared.

"IT is bringing about a new industrial revolution and we want to make people aware not only of the change going on, but also give them a sense of urgency," he says. The increas-ing globalisation of jobs and industries means Europe must act quickly to restructure its declining industries and improve competitiveness in IT and services.

"A culture that isolates itself from other countries will be dead in a short time. Jobs will get lost, but these jobs are already unproductive, and soon they will be replaced by new jobs," he says.

Bangemann has been a mem ber of the European Commis sion since 1989; and since 1993 he has looked after industrial affairs and 'DGXIII', the EC directorate that embraces telecommunications, the information market and research exploitation.

He is perhaps best known for the 1994 Bangemann report. which attempts to explain where Europe has gone wrong in IT. The report rejects using public money to fund the digital revolution and instead puts its faith firmly in market forces. It calls for faster telecomms deregulation and proposes specific projects to stimulate demand and give the information society critical

The report became a refer-

ence point for the industry and spawned a host of similar initiatives, most notably the Group of Seven Ministerial

Bangemann recently installed an Information Society Project Office in Brussels to explain to a sceptical European public what the digital era will mean for them. One of his pet projects is the Bange mann Challenge - a sort of Jeux sans Prontieres for the digital age - in which Euro-pean cities compete for the title of Europe's foremost IT

The DGXIII portfolio is highly technical, but Bangemann - who trained as a lawver and has spent 20 years in German and European politics - is not the typical Brussels technocrat. He prefers to talk about the political and sociological problems of new technology rather than regulations and technical standards.

Healthy sceptic

"The most difficult thing to do is for a non-expert to give a speech to experts," he admitted to an audience of 1.200 industry figures at the IT World Congress, held last month in Bilbao. Spain. He has a healthy scepticism about the digital revolution and knows that "new" does not necessarily mean "better".

Take information highways: highways should be faster and more efficient than small roads, but European motorists. especially Germans, know that is not always true," he says. Nevertheless, 'infobahns' are the key to dragging Europe into the digital age and the rea-

X.25 network by early next

year. This will allow the elimi-

nation of many leased lines

and thereby save money, it is

Of the 480 sites on the X.25

network, most of the larger

ones will move over to ATM. It

is expected that 60 sites will be

on the ATM network by the

end of this year. In the long

term it is expected there will

be links to research anterprises

German research groups will

not be able to afford to replace

their current equipment with

ATM equipment all at once, so

there is likely to be a lot of

TCP/IP traffic on the network

Delivery of ATM to the

researchers depends on the

availability of compatible ATM

switches. Mr Wilhelm hopes a

standard will emerge this year

to enable the network to invest

in new equipment and make

services available to users next

year. Many potential uses,

across the world.

for several years.

move to ATM

research institutes, is migrat-

In a project run by Deutsche

Telekom and its subsidiary

DeTeSystem, the network is moving to ATM from X.25 tech-

nology and removing leased

DeTeSystem launched the

ATM network, which uses Gen-

eral DataComm switches, at

The network's deputy techni-

cal director, Mr Martin Wil-

helm, says they concluded

after a study that ATM was the

best fit to their requirements for a broadband technology for

"It gives us the possibility of dedicated bandwidth," he says.

The existing network, which

uses the TCP/IP protocols

(Transmission control protocol/internet protocol), does not

allow bandwidth to be dedi-

This can cause problems for

applications such as videocon-

ferencing, when voice and

cated to specific applications.

the next three to five years.

the CeBit exhibition in Han-

nover in March.

ing to ATM technology.

■ Case study • By George Black

German researchers

German Research must get up to 155 megabits

Network - Deutsche For- per second as soon as possi-

universities, colleges and be integrated with the existing

schungs Netz - centred in Ber- ble," says Mr Wilhelm.

son why the EC is so keen to liberalise Europe's telecoms market. Brussels can fund only a token amount of the Ecu 250bn required to build Europe's high-speed mirastruc-ture, so the lion's share will have to come from the telephone companies.

Martin Bangemann; applying the

Most will be privatised by 1998 and, with predators and shareholders watching, reluctant to bankroll the EC's dream of a universal wideband infrastructure. So Bangemann has to apply 'carrot and stick' in liberal dollops. The carrot is the hundreds of EC-funded R&D projects in areas such as teleworking or health care networks that aim to stimulate real demand for wideband services. The stick is the raft of directives that since 1990 have prised opened the more lucrutive segments of the telecoms market and exposed the monopoly carriers to competi-

The experience has been traumatic and led to frequent clashes between Brussels and the state-owned monopolies. There are growing calls for the EC to "stop the clock" before pushing ahead with further painful reforms. Lost month. Spain hinted that it might renege on its earlier undertaking to respect the 1998 deadline for full telecommunications liberalisation.

the industry's complaints but believes liberalisation cannot be postponed - "competition will be bitter in those situations where telecommunications was dominated by a monopoly, but telephone companies have to abide by the EC

directives". Even with his lawyer background, drafting and interpreting these directives is a legal minefield, and Bangemann favours setting up a separate European regulator to handle the increasing complexity of EC telecoms legislation: "We are not pressing too hard, as some member-states have problems [with this proposal], but we will get one," he says.

Bangemann believes mergers are inevitable if Europe is to improve the competitiveness of its iT sector and warms against

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a "Fortress Europe" mentality to protect weak industries, European intransigence was widely blamed for the US walking away from the latest round of World Trade Organisationsponsored telecom liberalisa-

tion talks in April. "I was deeply disappointed with the breakdown," says Bangemanu, who remains optimistic that an agreement can be struck before the revised deadline of February 1997.

As the countdown to liberalbeition ticks away. Bangemann is working to ensure the new technologies will be relevant and accessible to all - "one of our biggest fears is [creating] a society with a new separation between 'baves' and 'bave nots"," he says,

Big contrasts

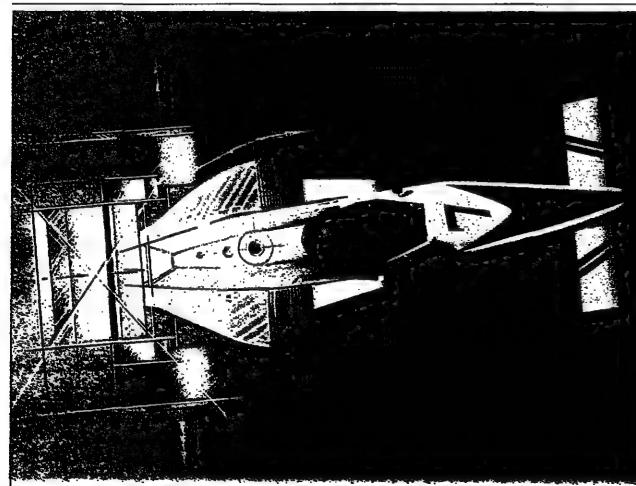
The two-tier information society aiready exists. IT investment in Denmark was Ecu 624 per capita in 1995 against just Ecu 17 in Greece. Bangemann knows that it will be difficult to close this gap, but he believes the Internet and broadband technologies can fundamentally change the relationship between commerce and industry, improving the attractiveness of remote areas and regions in decline.

To illustrate this point, Bangemann quotes the examcountry, structured in a very difficult way, but it has built an advanced telecommunications infrastructure.

Finland has exploited this technological advantage to become an important node on the internst. More notoriously, it has a thriving cottage industry of internet remailers, which allow users to anonymously post child pornography and Nazi propaganda on the

The issue of Internet censorship is complex and controver-sial, particularly in Europe where stitudes vary from country to country, but the EC is now looking actively at how it might police the Net.

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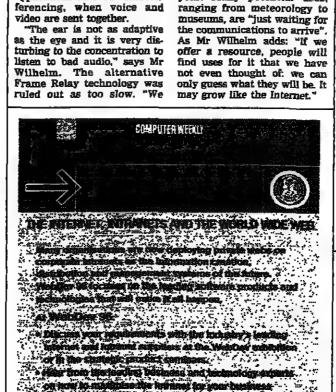
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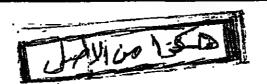
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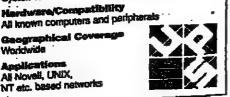
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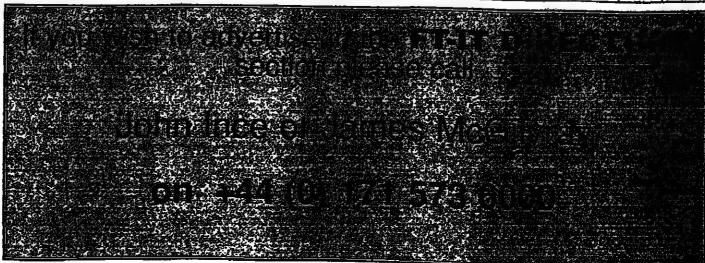
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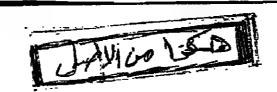
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Software :

III Internet software • By Louise Kehoe in San Francisco A rush for market dominance

"The Internet is a fantastic thing," says Bill Gates of Microsoft, the software giant. "It makes software and computers more relevant to what is happening in the world. There is something going on here that is very deep ... "

ill Gates, chairman and in information technology that chief executive of is expected to bring broad Microsoft, has become one of the leading advocates of Internet software. His enthusiasm is matched only by his determination to achieve leadership in what is expected to be the fastest growing segment of the software market.

Microsoft's ambitions are, however, being hotly chal-lenged by a hoard of new software ventures led by Netscape Communications which has captured an early lead in browsers - the programs used to navigate the World Wide Web and the most visible segment of the Internet software

Like the introduction of minicomputers in the 1970s and personal computers in the early 1980s, Internet computing represents a fundamental shift

he spread of the internet - and its internal corporate sibling, the Intranet 🦈 – is forcing a fundamental

change in computer software

at every level. New, simple

browser software, running on

low-cost network computers.

offers an alternative to incress-

ingly complex Windows PC

systems. Innovative software

tools such as Sun's Java lan-

guage promise to simplify

application-building. And the

hypertext-linked model of the

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changes to the IT industry and to users. Historically, no company that has dominated one generation of computing has dominated the next, largely because they have been too closely wedded to the legacy of their past success.

"Internet computing will completely recast the dynamics of the software industry," say analysts at Forrester Research, a US market research group. "Microsoft will loose its dominance," they pre-

Yet it may be too soon to dethrone Microsoft. Although Mr Gates acknowledges that his company is the "underdog" in Internet software, he is determined not only to catch up, but to overtake all competitors. Over the past six months.

Microsoft has launched a fuselage of products, intitiatives and acquisitions all aimed at claiming leadership in Internet software. Central to this "fight back" is Internet Explorer, the Microsoft Web browser, which it is making available free of charge via the Internet.

Through agreements with ading online information services and Internet access providers that will offer their subscribers Explorer software, Microsoft is quickly gaining on Netscape. Moreover, later this summer, Microsoft will introduce an upgraded version of Internet Explorer that is expec-ted to match all of the features of Netscape's Navigator program. But the "battle of the browsers" is just the beginning - see report, below. These programs are quickly becoming the universal "user interface"

for personal computing and thus become a challenge to Microsoft's core PC operating system business. Already, Netscape has described ambitious plans to transform its Naviga tor software into a complete PC operating system. Microsoft, meanwhile, bas demonstrated a new version of Windows that incorporates a

"browser" front end. "The priority for us is Windows and making sure that Windows is the best Internet platform," says Mr Gates. "Netscape is taking a browser and growing it into an operating system. We are taking an operating system and integrating a

Features

The latter approach will prowide computer users with a "single interface"; software that will enable them to find files stored on a personal computer's internal hard disk in the same way as they currently access information on a remote Internet/intranet

Netscape and Microsoft are also racing to bring new features to their browsers both through their own efforts and by adding third-party functions. The latest version of Netscape Navigator, for example, incorporates "LiveConnect", a feature that can be used to glue add-on applications into

A sales manager might, for example, click on a button to send a query to a database and the results will automatically be charted by a plug-in program, explains Marc Andreessen, co-founder of Netscape.

Other Netscape enhance-ments include LiveAudio and LiveVideo capabilities that allow users to view video and hear audio directly from Web pages without waiting to download files to a special "viewer". Whatever technology advantages Netscape may achieve, however, it is unlikely to profit

greatly so long as Microsoft is

content to make its competing Explorer program available free of charge. Microsoft is also giving away software for Internet "servers" the computers that store information distributed over the Internet and intranets, to purchasers of its Windows NT operating system. Netscape, which receives most of its reve-

nues from selling server soft-

ware, has had to slash prices on its basic server programs in "Our business model works even if all Internet software is free," says Mr Gates. "We are still selling operating systems." Neiscane, in contrast, is dependent upon its Internet softwere

Yet browsers and basic serv

for profits, he points out.

grounds will be in "groupware" for the Internet and intranets: programs that enable people to work collaboratively over a computer network. In this arena. Oracle is claiming to be first past the post. Last month the company announced "InterOffice", a groupware program designed to work with the company's Universal Server multimedia database, which it claims will provide all of the features of established products such as Lotus Notes, and more.

ers are only the starting point

for Internet software. One of

the next important battle

Similarly, Netscape is working on a new browser, codenamed Galileo, that it says will match proprietary groupware features. Meanwhile, Microsoft and Lotus are rejigging their groupware products to incorporate Internet standards. The most significant chal-

lenge to Microsoft's authority may, however, come from Java a programming language and development tools from Sun Microsystems that enable the rapid development of "Internet

ready" platform-independent applications. Since its launch last year, Java has taken the programming world by storm. Although even Sun executives acknowledge that Java is immature, it is in active use by thousands of developers, including dozens of innovative start-ups. These are "kids who are willing to live in the 'Big Mac zone, as opposed to the 'Chez Louis zone'," says Scott McNealy, Sun chief executive. "They start from scratch, and now instead of just developing applications for the Windows world now they can develop

programs for all sorts of com-

puters and network access

Predictions

Collectively, these start-up companies will overthrow Microsoft's leadership in the software industry, Mr McNealy predicts. He also hopes that they will help him to sell lots of server hardware to build "Java farms" - collections of computers that store and distribute applications to desktop

Internet computing

Recasting the dynamics of the software industry

computers on demand. Mr Gates dismisses Java as "one of dozens of computer languages" that will be used to create applications for the Internet. Neither is be impressed by the idea that Java will fuel the creation of a new generation of downloadable applications. There are 150m users of Microsoft PC programs, he points out - "just because the Internet is out there, it does not mean that people will throw away their applications."

Moreover, Microsoft itself is adapting to the network application model. Mr Gates suggests that in the future PC users may install only the basic functions of an application on their own computer and access rarely used functions via the network. Unlike leaders of the mainframe computer and minicomputer eras. Microsoft is responding quickly to the changes that threaten to undermine its success. With its greater resources and well-honed tactics for competition, it may yet defy the prophets of doom to maintain

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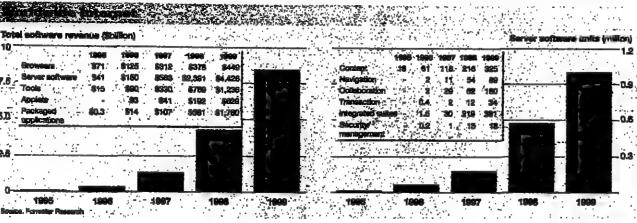
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Fresh challenge for software developers

The next 12 months will be crucial in the development of useful corporate Internet applications – and server software is a key component in its success

wave to organise and access Although client computers One of the biggest challenges facing software developers in the 1990s is to find ways to bring together these new developments from the world of the Internet with existing com-Internet/Intranet systems

arc, of course, a variation on the now well-established, client/server approach to systems Until recently, the Unix operdesign. Client/server computating system has been the ing separates the presentation mainstay of Internet server software on the desktop from a range of 'back room' services each under the control of a server computer. Most people are now familiar

with desktop 'client' systems, including the Apple Macintosh and the Windows PC. Typically, they have formidable processing power in their own right, local disk storage and can support a wide range of software. They call up server computers to access database files, communications gateways, printing services and, increasingly, the Internet. The Internet has introduced a new style of client called a browser (see report, right). A browser is

a relatively simple program applications and we have to NT has moved into the com-

are important - the task of bringing Internet computing together with existing systems happens on the backroom server. Server computers must be able to cope with requests from many different client computers at the same time. They need a different kind of software to that found on the

computers. Sun Microsystems, the leader in the Internet server market, uses a version of Unix on its systems and other suppliers such as Hewlett Packard and Silicon Graphics use variations on Unix, too. But this is starting to change. IBM, for example, has re-positioned its traditional mainframe systems as general-purpose servers. Earlier this year it re-packaged a wide range of computer resources and services as 'software servers' to meet the new demands

"The Internet and Intranet are powerful ideas for new

ductivity," explains Mr Bill Reedy, a vice president of IBM's software business, "Our strong presence in enterprise computing led us to re-package our key services as modular software servers which can help companies move into the new environment, while keeping control of their legacy

BM now offers seven software servers in its range covering everything from its established CICS transaction processing software and DB2 database software to Lotus Notes and the Internet. At the same time, Microsoft has pushed into the server market with its Windows NT

operating system.
"A server is a combination of hardware and software and users are looking for increased resilience and all of the things they were used to with the old mainframe computers." sava Mr Peter Blackmore, vice president of Compaq's European systems business. "Servers have traditionally been based on the Unix operating system. But as Microsoft's Windows

which is designed to 'navigate' respond to the demand for new mercial market, we are seeing shows Windows NT has a compound annual growth rate of 120 per cent. Market acceptance is very high and the price/performance of NT is half that of Unix."

Compaq is taking a scatter gun approach to Internet server software. It packages up Microsoft's NT along with Novall's Web server and Netscape's Commerce server free of charge with its range of server CONTUQUES.

"We think users need to

make their own choices so they can fit in with their existing systems. Our job is to provide a resilient, open hardware platform." Mr Blackmore explains. Microsoft also claims high performance for the Windows NT software - "although Unix is the traditional base for Internet servers, Windows NT is gaining ground, especially where users want to put a corver on a local area network. Performance is a key strength of Windows NT and we are two and half times faster than any other server platform," claims Mr Jeremy Gittins, Internet product manager at Microsoft Access to the Web . By Paul Taylor

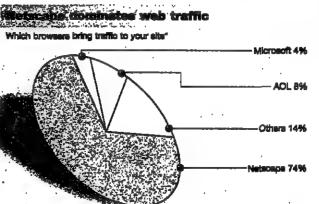
Battle of the browsers

Although most attention is focused on the contest between Netscape and Microsoft, there are now more than 20 other browsers on the market

Perhaps more than any other piece of Internet software, the browser epitomises the strength of inter-networking and the World Wide Web - access to vast treasures of information using easy-to-use yet incredibly powerful software tools based on internationally recognised standards.

However, it is also in the market for browser software that one of the most bitter Internet software battles is being fought out between Netscape, the California start-up whose Navigator programms currently dominates the browser market with more than 38m users and around an 85 per cent market share, and Microsoft, which entered the browser market late, but which appears determined to establish its Internet Explorer browser as Navigator's main

On the face of it, it is a true David and Goliath battle since Netscape had annual revenues of just \$81m last year compared with Microsoft's \$6hn.



But Netscape, founded by James Clark and Marc Andressen and floated on the Nasdaq last year when it was valued at \$4bn, has some nowerful allies, such as Oracle and Sun Microsystems, a large installed base and loval following, particularly among corporates, which account for 70 per cent of its business.

Overall, browsers accounted for about 60 per cent of the estimated \$127m in Internet software revenues last year and about a third of the projected \$382m in revenues this year. But the battle between Netscape and Microsoft is Internet software revenues. As commercial use of the Internet grows and intranets - internal networks based on Internet standards and software - are

"16 of vietors acresing 60 sites. deployed throughout compa-

nies, browsers and browser technology are set to become a key element in corporate com-Already many features of the browser are being built into software operating systems

and other applications programmes, helping to turn the next-generation graphical user interface. For example, last month Microsoft unveiled plans to combine its top-selling PC software products, such as Microsoft Office, with Internet technologies to enable businesses to build intranets as part of a strategy to stake claim to leadership in the emerging intranet software

Among the products previewed by Microsoft were new versions of its widely-used Windows PC operating systems, with built-in browser capabilities enabling users to search for information stored on their local computer, on an internal network or on the global Internet.

The company also demonstrated Windows NT Server. with built-in tools for authoring and network management. and a search server for document searching. It also showed best-selling desktop application suite, that includes technology for publishing and searching information in the form of Web

Microsoft is "merging the best of the Internet and the best of the PC," said Mr Bill Gates, chairman. "Intranets will have an immediate and dramatic impact on businesses over the next few years," he predicted, by enabling office workers to find and share information more efficiently. Microsoft, which already gives away Internet Explorer and its Web server software

free, is expected to put increased competitive pressure on Netscape. In particular, analysts expect Netscape to be forced to reduce further the prices of its own server products, the company's primary source of profits. However, Netscape, which claims that 92 of the top 100 companies in the US already use its software. shows no signs of surrendering its lead in the browser market to Microsoft without a fight.

The company - whose latest Navigator version boasts a wide range of innovations including live audio and video and an integrated Internet telephone feature - has launched a pre-emptive strike against Microsoft by publishing its own intranet vision, via its Internet pages, describing the deration versions of Iti Navigator browser program and its Suite Spot software for the Web.

Netscape claims Microsoft's intranet technology forces users to adopt other Microsoft products, in particular its Windows operating system. Netscape's software, in contrast, works with Unix-based systems and Apple Computer's machines as well as with those running Microsoft Windows.

'We defined the intranet vision. Microsoft is trying to follow us down that path and put a proprietary tweak on it," said Mr Mike Homer, Netscape senior vice-president of marketing, last month.

or the moment, most independent analysts agree that Netscape's latest browser maintains its technological lead over the latest version of Microsoft's Internet Explorer, but, with new versions coming out every few months, the gap is closing. Apart from Netscape and Microsoft, there are more than

20 other browsers on the marreport, Forrester Research divided them into three categories based on technology and architecture: ☐ The laggards. These

browsers, argues Forrester. make using the Web painful because they do not support the latest version of 'Hypertext Mark Up Language,' (HTML). ☐ The pack. This group includes 'credible browsers'

such as GNN, Spry and Netcom's NetCruiser, but Forrester says they are "increasingly winded as they try to keep pace with Netscape". ☐ The leaders. Netscape,

says Forrester, qualifies for this category "because it is setting the Web software agenda. Microsoft is placed in this category even though its browser technically a generation behind Netscape, because "it has a strategy for evolving Internet Explorer, and the financial and marketing clout to become a serious contender".

Most analysts believe, however, that the market is on the verge of a wave of consolidation driven in part, by the become increasingly 'personalised' as users add bookmarks and other browser-specific data and programmes making it increasingly difficult to persuade seasoned users to switch browsers. This, it is argued, Netscape and Microsoft - both of which have particular strengths and advantages deter new start ups and cause other players to drop out.

Software applications: merchant servers • By Rod Newing

5 Web sites become interactive, the current business model - which requires visitors to switch off their modems and pick up the telephone to place an order is about to disappear.

A new breed of Web software, called "merchant servers", is just around the corner which will allow visitors to place their orders and make payment securely whilst on the Web site.

Sitting between the user and the organisation's existing internal systems, these servers provide a range of services for electronic trading. They have the ability to display product details held in a separate database, to search for products, Ill an electronic shopping hasket with purchases, process orders, carry out user identifiestion, apply for a credit secount, check credit, process ecure payments, capture visifor preferences, carry out customised micromarketing, offer coupons and discounts, handle Sales taxes and provide reports.

Browsers can download an electronic shopping basket. which will then hold their credit card details and delivery address. It will enable credit card processing and secure payment and may be incorporated into a future operating Systems. The servers have also

Electronic shopping on the Web

Home shopping is likely to be eclipsed by business-to-business electronic trading games at http://sales.atlan-

been designed to support future electronic cash systems. Microsoft's new Merchant Server was demonstrated to 50 retailers in Washington in February and incorporates features from their feedback.

Merchant Server currently only works with Microsoft's own Windows NT operating system and its browser, Internet Explorer. Only Explorer has the built-in security and encryption which electronic commerce requires, although it will soon follow in other browsers. Secure Electronic Trading ('SET') is the new publicly available standard which allows merchant servers to verify the identity of legitimate buyers and reassure them of the legitimacy of sellers.

Payment

SET is designed to guarantee the provision of goods and services and subsequent payment. Visa and MasterCard have developed it together with Microsoft, GTE, IBM and Netscape. The specification should be available through http:// www.visa.com or http:// uncro.mostercard.com.

Visa is also developing Net-Bill, with Carnegie Mellon University, which will aggregate small transactions into larger sums which can be accounted for through credit card billing. Great Universal Stores (http:// shoppersuniverse.com) and Wallmart are beta testing Merchant Server at their respective electronic shopping malls.

When goods have been examined and selected, payment is by debit or credit card, using SET. Open Market Inc (http:// www.openmarket.com) has developed OM Transact, which is a top-end merchant server product aimed at very large retailers and Internet Service Providers (ISPs). They have the momentum

and power to get commerce on to the Net," says Greg Pope, European general manager for Open Market. "Publishers are also important, because they have the content. And catalogue shopping companies are potential users."

IBM (http://www.internet_ibm_com) has recently announced Net.Commerce (http://net.commerce.ibm.com). which it has already used to sell tickets for the Olympic

ta.olympic.org. L.L.Bean, the US catalogue retailer, will be the first com-

mercial customer, with a service commencing in the third quarter of 1996. IBM is also offering to host on-line catalogues to allow organisations to trade electronically without incurring a high initial investment on the strength of unquantified benefits (http:// unnu.ecs.hosting.ibm.com/ims

New services Lotus (http://www.lotus.com)

is developing a new set of applications designed to introduce new core services to the Internet. The first of these 'a-applications' is Lotus Notes:Newsstand, which is used by information providers to publish material to subscribers. Additional applications are heing developed for electronic data interchange, enhanced security, credit card processing, subscription management, customer service, and billing.

Netscape (http://home.net-

score.com) has Merchant Sys-

tem for high-volume sites. It is

used by WorldView Systems and Sabre for their travel service at http://travelocity.com. Andersen Consulting and EDS are implementation partners. Netscape has just announced LivePayment, which extends Netscape's SuiteSpot Web servers with a set of templates which allow webmasters to build electronic commerce

Netscape has also set up Actra ('Active Transactions') Business Systems, jointly with GE Information Services, the world's leading provider of business-to-business electronic commerce. This move is aimed at bringing the considerable advantages of EDI to a wider business community using

applications themselves.

Internet technology. Bob Lewis, IBM's European Marketspace manager has a very balanced view of electronic trading: "Any electronic mall service is limited by the slow speeds of home modems and by the limitations of graphics and images that the web server provides.

"Browsing for products is frustratingly slow, but you can shop when you want and move

"Where the electronic mall will have added strength is in the new enhanced features, such as micro-marketing, personalised shopping and comparison shopping techniques." Electronic shopping is going

to be a valuable additional service on the Web, but it is possible that home shopping will be eclipsed by business-to-business electronic trading. Businesses have faster links to the Web and bigger purchas-

ing budgets than households. A recent survey of large companies by Barclays, the UK high street bank (http:// www.barclays.co.uk/psmd/ business/purchaseonline), found that nearly half of them want to use the Internet to order goods and services direct. Shoppers' Universe already includes a small business-to-

business section and General Electric have set up a significant trading opportunity between businesses at http:// ununu.ge_com/tpn/. These new electronic trading systems will need to be simed

at other businesses - not homes - if the revenue-earning potential of the Web is to be

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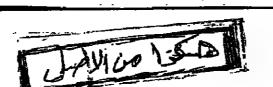
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FOREIGN EXCHANGE

Central banks steady the markets

During the uneasy quiet which now prevails the industry faces a period of

erestructuring. But, asks Philip Gawith. how long will the calm last?

Anyone inclined to the fashionable thesis that in an era of global capitalism, power is seeping inexorably from state to market need look no further than the foreign exchange markets for a convincing rebuttal.

Central banks and finance ministries have scored a convincing victory over their old foe, the currency trader, with exchange markets currently more benign than for many

The dollar has rallied strongly after its historic lows last year, the yen and the D-Mark have both weakened appreciably, providing much needed stimuli to their ailing economies, and the level of volatility in the main currencies is approaching record lows.

This period of stability is testimony to a greater sense of common purpose among G-7 partners, backed by real policy easures, than has existed for a long time. Last week Larry Summers, the deputy secretary of the US Treasury, told a New York audience: "The only path to enduring exchange market stability is through the pursuit of sound economic policies." The message from the markets s that the G-7 is on that path. However, it is a slightly uneasy calm that prevails. Historically, the longer that mar-kets stay quiet, the fiercer the subsequent move. It is almost a year since central banks last intervened together to stabilise currency markets - a protracted peace by the standards of recent years.

Two questions in particular are occupying the market. The most important concerns the dollar - is the rally of the past year likely to be sustained? Does it represent a fundamental turn in the trend after more than 20 years of steady depreci-ation in the world's leading reserve and trading currency, or is it simply an upward blip within the ongoing downward trend? Much money will be

made and lost getting the cor-rect answer to that question. The other fundamental question concerns the path to a single currency in Europe. Will traders still be trading D-Marks, Irancs, pesetas and liras in 1999, or will they all have been subsumed in the

There is a tantalising absence of consensus on both of these questions. While the market remains broadly positive about the outlook for the dollar, there is still considerable scepticism about whether it can really have shaken off its bad old ways. As for Europe, nobody underestimates the collective political will, but the combination of a rigid timetable and a process driven relentlessly by politicians' and bureaucrats against a backdrop of widespread popular scepticism, leaves an ugly bout of indigestion a distinct

From a purely selfish perspective, this is what many in the currency markets will be hoping for. For if there is one constituency in the world which does not enjoy the era of New Age economics, where all governments sing from the same hymn sheet of fiscal and monetary probity, it is foreign exchange traders.

The mood in the industry is subdued, with keen competition and calm markets proving an unpromising trading envi-ronment. Paul Chappell, head of foreign exchange at Bank of America in London, says: "1996 has been a very quiet year so it is very likely that people are currencies where huge vol-

faces is, in the words of one manager: "Is it a drought, or do we live in a desert?" Will the industry return to the fat years of 1992/3, or must it learn to live with the current market

Most dealing room manag are confident the music will start to play again - that the current policy consensus between leading industrial nations will unravel, prompting renewed exchange rate tur-But even if they are right, it

is unlikely to offer more than a temporary respite from the far-reaching challenges the industry is facing. Optimists will report that they have been here before -

Everybody is hoping for a return to the days when central banks threw money at the markets

back in 1991, a backdrop of quiet markets led many to question the future of the business, only for huge turbulence in the European exchange rate mechanism in 1992/93 to restore fortunes.

Only the most sanguine, however, believe this will do more than delay the inevitable. Market turnover may continue to grow - the most recent survey from the Bank for International Settlements suggests total daily turnover grew by 30 per cent from 1992 to reach about \$1,200bn/day in 1995 but fierce competition and the onward march of technology have put profits under pressure, especially in the main

umes are traded for little or no

Guy Whittaker, head of global foreign exchange at Citi-bank, said recently that after 30 years of sustained growth in the industry, "we have perhaps reached a point where, because of a changing environment and new technology, the growth of capacity of the market has exceeded the growth in demand."

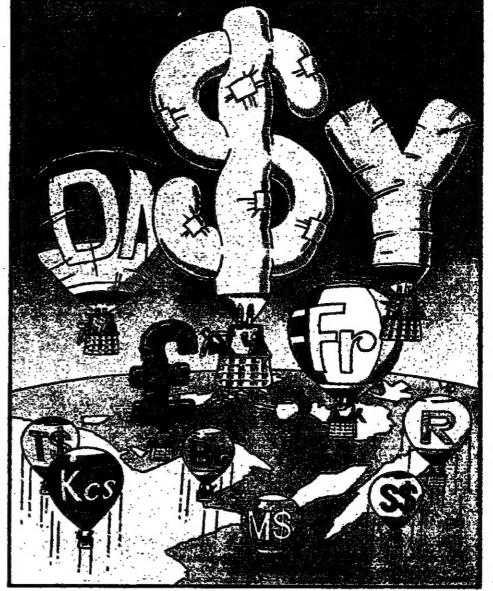
As with the rest of the banking industry, it is increasingly the case that machines can do some of the the work more cheaply and more efficiently than people. Partly, this involves labour intensive, back-office administrative work. But the front office is by no means immune. The nowerful growth of electronic broking systems means that prices can, in many cases, be accessed from a machine. Reuters 2000-2 and EBS, the two electronic systems which allow trades to be done by matching buy and sell orders that have been put into the system, have carved out a large market share. This has come at the expense of both the voice-broking and the larger banks, who have lost much of the business they used to receive from smaller banks.

Klaus Said, head of foreign exchange at JP Morgan in New York, says: "I can very easily see where you have fewer traders and essentially no, or very little, interbank market making beyond gentlemen's agreements, with electronic broking used to get you out of your positions

It is no wonder then that the spot trader, that most hoary of all market stereotypes, and bane of finance ministries over the years, appears an increasingly threatened species.

Privately, most managers of large dealing rooms agree that a significant shrink in the head count over the next few years - 30-40 per cent is not contro versial - is inevitable. Technology is not the only

factor at work here. Consolidation and centralisation are two other important themes, both of which will cause job losses. The best example of consolidation is the merger of Chase and Chemical banks to form the new Chase, a potential con-tender for Citibank's status as



the dominant foreign exchange bank, but also one now carrying on business with 20 per cent less staff. The merger of the Bank of Tokyo and Mitsubishi was also a significant one for the markets.

This sort of shrinkage has. ramifications across the industry. There have already been significant job losses in the broking community, caused in part by the rapid growth of electronic broking, but also aggravated by the disappearance of important customers through merger.

Centralisation is also in vogue. Increasingly banks are closing many of their smaller trading rooms in minor centres, preferring to centralise dealers operating in two cen-

their price-making capabilities in a few regional hubs, such as London, New York and Singapore. Local branches are then used as marketing outlets which only make prices in the domestic currency. From a global perspective, this process has involved big job losses, although this is not so evident

ciaries. Mr Whittaker cites the case of Citibank: eight years ago the bank had 39 spot dollar/D-Mark dealers trading in 17 independent centres just in Europe. "Today we do more business and serve more customers in dollar/D-Mark with only six

in the large centres which, if

anything, could be not benefi-

tres." Even if Citibank was decentralised to a fault, with different branches acting as competing flefdoms, a similar story can be told at most other large banks.

In the meantime, banks have no choice but to play the hand they have been dealt. Jim O'Neill, chief currency economist at Goldman Sachs in New York, believes that it is "a period when the real franchise players with big client business are likely to stand out

Certainly, there is more talk than ever about the customer. With technology having made the commodity end of the business increasingly unprofitable, from transactions to advice. with banks and brokers anxiously trying to move up the value-added chain to preserve their margins.

"Five years ago it was all about price. Now it's about relationships, idea generation and research," says Jeremy Hodges, head of foreign exchange sales at Bankers Trust in London. "The customers of today are far more sophisticated than they have

The future, then, is shaping up as one where fewer, more highly trained staff are employed, with far more effort, devoted to customer service. and far less to purely transactional jobs where little value is

Customers, in turn, will be asked to pay for this service. At the moment, says Mr Said, "this market is dramatically slewed towards the client like no market I have ever seen".

But while the industry is having to face up to some difficult decisions, particularly on the cost side, there are also some bright spots. The most obvious is the growth in emerging markets currency trading. Margins are better, but risks are also higher, and there is no short cut to expertise in these markets.

There is no doubt, though that these currencies will play an increasingly important role in the activities and profits of most dealing rooms.

Options are another growth area, particularly in the form of exotic options. While some banks and customers have burned their fingers, their superiority as hedging instruments seems likely to ensure that they will continue to grow, possibly cannibalising the spot market in the process. While growth opportunities

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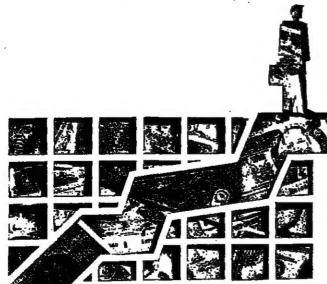
remain and have to be seized, the industry's current focus is more inward - on achieving a cost base that is sustainable through quiet markets, and improving returns on capital. Everybody, however, is hoping for a revenue surprise - a return to the good old days when central banks obligingly threw money at the markets.

History may record the present period as a one-off shift to lower price volatility, driven by greater policy convergence That is the keen desire of politicians and central bankers. If not, the time may be approaching for the pendulum to swing





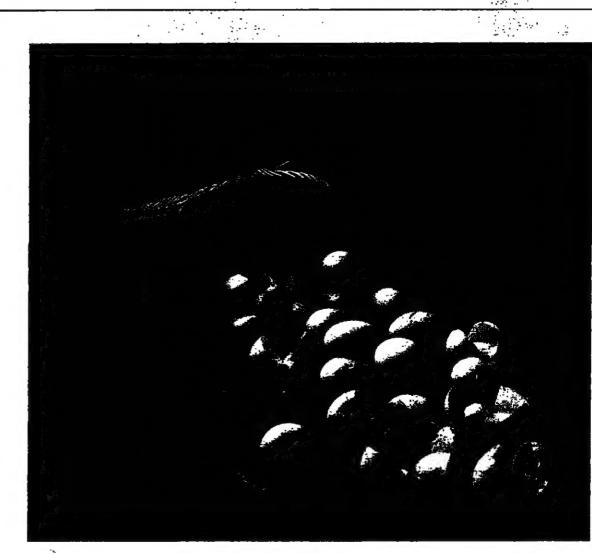




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The impact of a strong currency

Japan: by William Dawkins

Yen's rise prompts exodus

manufacturers are shifting production to cheaper locations offshore

Toyota, Japan's largest car producer, will in two years' time start making engines in China, its first significant foothold in this potentially enormous market.

Hardly a week goes by in Tokyo without a top manufacturing company announcing a project in Asia, whether it be a tentative first step into the wilds of China or a semiconductor plant in an advanced, newly-industrialised economy such as Singapore.

What has changed in the motives of Toyota and others for their expansion overseas? Until recently, the main driving force was the strength of

The yen has risen by 83 per cent against the dollar since 1985

the yen. But deeper factors are also at work. Japan, once supreme in mass production, is being overtaken by its more recently industrialised neighbours. It now faces the challenge of how to find new high-

■ Germany: by Andrew Fisher

compete, at present the top priority for its industrial policy international trade and indus-

The climb of the yen alone has been a powerful stimulus for change. Since the end of 1985, the currency's value against the dollar has risen by 83 per cent to around Y109, touching a hair-raising record of Y79.75 in April last year. Manufacturers have

esponded correspondingly fast in shifting new production to cheaper locations offshore, though they have been slower in shedding redundant capacity at home, a legacy of the largest companies' continued promise to provide lifetime Over the past near-decade.

the share of Japanese companies' production offshore has risen from 3 per cent to 7.9 per cent at the latest Mitt count at the end of 1994. Since then, the signs are that growth in the share of foreign output has accelerated. The total could reach 20 per cent in the next three to four years - about the same as in the US now according to the Japan External Trade Organisation. Already, Japanese manufacturers produce more abroad than

The exodus, it appears, has picked up a momentum too strong to be checked by the

exchange rate since the middle of last year. In the 12 months to March 1996, Japanese foreign direct investment rose by

finance ministry. As the focus of new producper cent to a four-year high tion has switched to Asia, so of Y4.957bn and new foreign the new arrivals have started investment plans arrive thick to put down local roots more deeply than before. They have invested more in servicing local markets, and moved some research and development and even management functions

Japan's first wave of foreign

investment in the early 1980s

was primarily to supply its

main existing overseas mar-kets - the US and Europe -

and Japan more cheaply. But

over the past decade, the focus

has switched towards faster

growing and more profitable

markets in Asia. Overall, for-

eign direct investment in

North America declined from

just over half of the total when

Japan's FDI peaked in 1989, to

45 per cent last year, while the

out of Japan. Japanese companies' local units reinvested 60 per cent of their local profits on increasing capacity for local markets. rather than exporting, twice as much as five years ago, according to Jetro's 1996 white paper. More companies are setting up local headquarters with decision-making responsibility, it

doubled to 24 per cent over the

same period, according to the

Meanwhile, Japanese companies' domestic spending on research and development started to decline three years ago for the first time since the war, since when foreign offshoots' R&D has correspondingly risen, according to a recent Miti survey.

It all points to a decisive move away from the centralised, domestically oriented tradition of Japan's top compapies. That suggests that the shift of capacity offshore tinue to rise to the levels achieved by other mature econ

Managing exchange rate fluctuations

■ Fund manager case study: Guinness Flight • By Philip Coggan

John Stopford's team looks after around \$1.3bn of assets with a currency overlay

increasingly aware that they need to take a view on currency movements, as well as on the prospects for bonds and

John Stopford, a portfolio manager at UK fund manage-ment group Guinness Flight, is one of a team which looks after the currency exposure of the group, plus a range of onshore and offshore currency and bond funds for retail and institutional investors. The team looks after around \$1.3bn of assets with a currency overlay.

"We have been managing currencies as a separate asset class from bonds and equities since as far back as 1980," he says. "That means putting a currency overlay on all our bond and equity funds. What is good for bonds and equities isn't necessarily good for cur-rencies. So just because we are invested in US treasuries doesn't mean we are in dollars to the same extent."

Frequently in recent years, currencies have been moving in the opposite direction from

"Over the past year, the optimal strategy has been to be long the Nikkei 225 and short the yen", Mr Stopford says.

The decisions on currency strategy are taken by the entire team. "For us to have a sonable amount of success we feel it's important to generate ideas internally," says Mr

The team has a disciplined process of quarterly, monthly and weekly meetings, during which it looks at what Mr Stopford calls "compelling forces . those key factors which we think drive exchange rates over the medium and long term." Each month the factors are "scored" by the team to belp members reach a view on

"In the very long term, currencies move to offset changes in competitiveness," he says. "Relative prices are important, and while purchasing power parity doesn't hold true all the time, it does have an influence." The team also considers other long-term factors such as if a country runs a consistent current account deficit.

But, Mr Stopford says that "in the short term, currencles can deviate quite a lot from their long-term path." The Guinness Flight team accordingly looks at factors which such as "short-term interest rates, real bond yields, direct investment flows, whether the trade position is worsening or improving, and whether cen-

tral banks are intervening Chart patterns, or technical

n Stopford: It is important to

analysis, can also play a role in determining the team's short-term view, as can noneconomic factors such as politics. All in all, the scoring pros means that, according to Mr Stopford, "we might be wrong about individual factors but on balance, hopefully, the totals are pointing in the right

The process also limits the tendency for the managers to

dealing activity. "We are strategic investors rather than traders and we add value by taking a long-term view, we can't out-trade the market." says Mr Stopford. Once the team has decided

on its view, the appropriate funds will move in the same direction (and at the same time). "Our dealing will be done using one of a number of City financial institutions. For credit reasons, we spread the risk pretty carefully, and we # look at pricing and quality of

At the start of the year, he says, the currency decisions were relatively easy. Japan and Germany had easy money policies, the Japanese current account was deteriorating and the respective authorities were talking down their exchange rates. That made it smart to be long dollars and short yen." says Mr Stopford. The decisions are harder

now. "The US dollar no longer looks that cheap and the DM. and yen no longer look that expensive. "The Italian life and Swedish krone have moved from being undervalued. We remain long of the dollar but we have reduced our positions gradually. We have also reduced positions in peripheral currencies."

■ International company case study: Marzotto • By Andrew Hill

-Mark dip suits exporters

The stagnating economy now looks like moving back hesitantly to a growth path

Germany's exporters are breathing more easily this year. Already under pressure from high domestic labour costs and taxes, they bore an extra burden in 1995 as the D-Mark soared against the dollar and several European currencies. But now the trend has been reversed and the German currency is back to its levels at

The D-Mark is back to its levels at the beginning of last year

the beginning of last year.

This is positive news for a stagnating economy which looks like moving hesitantly back to a growth path. With private consumption and industrial investments lacking any real impetus, exports are the economy's main support.

bank said in its June monthly report that exports had stabilised at the high level of the second half of 1995. The correction of the D-Mark's overvaluation of last year had brightened the export outlook and also improved companies' prof-

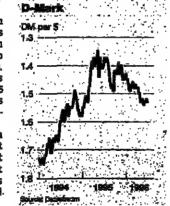
From a low of DM1.3450 in April 1995, the dollar has climbed above DM1.53, with economists expecting it to strengthen to perhaps DM1.60. At the peak of the D-Mark's rise last year, it had risen by 6 per cent against the currencies of the 18 most important industrialised countries. The D-Mark's revaluation

last year reached 14 per cent against the dollar, 20 per cent against the lira and 10 per cent against sterling. It was less extreme against the peseta and the Portuguese escudo.

"It has taken 14 months to level the unjustified appreciation of the D-Mark in the first quarter of 1995," Bank Julius Baer said in its latest economic summary. However, the changed currency trend also meant economic growth in Germany's neighbours would weaken once the impact of

off. Thus they were likely to cut interest rates to choke off further rises in their curren-

The combination of high costs, currency uncertainties and a desire to gain access to



new markets has led to a rapid increase in German companies investment abroad. Last year, the total nearly doubled to around DM50bn, while foreign investment in Germany was only DM13bn.

Several big transactions in the insurance, pharmaceuticals

German investment abroad, the bulk of which went to the

European Union and the US. But German companies are also investing more in southeast Asia and eastern Europe. Increasingly, the Bundesbank noted, exporters are incorporating cheaper foreign components into their export prod-

Thus higher exports do not fully benefit the German economy. Also, foreign order figures could be exaggerated through inclusion of contracts that companies pass on to low-So while the D-Mark's strength may have abated,

exporters are still striving to cut costs and offset the impacts of currency shifts. Moreover, the currency could come under further revaluation pressure if markets thought a postponement of European monetary union aimed at stabilising economic and currency conditions - was The Bundesbank, however,

will be anxious to ensure that the D-Mark does not enter Emu at too high a level, locking the country in from the start at

Just over two-thirds of the company's L2,400bn turnover consists of sales

outside Italy Pietro Marzotto is looking forward to the arrival of a single European currency, if only because it could save him a little of the time he has to spend every Tuesday discussing exchange rates with the financial managers of Mar-

zotto, the quoted Italian cloth-

ing and textiles group of which he is chairman. Just over two-thirds of Marzotto's annual turnover of L2,400bn is represented by sales outside Italy. The group also has production based in Germany (it controls Hugo Boss, the German menswear group). France, the Czech

Republic and Tunisia While the lira was in the European exchange rate mechanism, control of movements against other European currencies was relatively simple. But the precipitate departure of the Italian currency in September 1992 ushered in a new period of exchange rate volatility, exacerbated by domestic political uncertainty.

Marzotto's 1995 report and

lem. Last year, the average exchange rate against the D-Mark - the most important currency for Marzotto - was L1.130.88.

That compares with L996.52 in 1994 and L1,071.6 in the first quarter of this year. Now analysts talk about the lira re-entering the ERM at a central

rate of some L1,000. Under the circumstances Pietro Marzotto is understandably cautious about forecasting a consolidated result in lira. In his message to shareholders he directs attention to the more stable Ecu-denominated profit and loss account.

End-year translation effects are only part of the problem facing Marzotto, however. The 1992 devaluation was widely interpreted as a boon for Italian exporters. But whereas small Italian companies were able to take advantage of the weak lira with single order raids on the export market, Marzotto could not afford to be held bostage by a volatile currency. In 1993, prompted by the lira's exit from the ERM, the company introduced a new system of hedging and control

over exchange rates. Mr Marzotto is proud of the new system, and reluctant to reveal it in detail, but the central instrument for controlling currency exposure is a weekly

man and his top executives. In the report, the company assesses its commitments in foreign currencies - credits and firm orders, less balancesheet debt, plus the forecasts for future orders and expenses. It then borrows in local currency, or occasionally uses foreign exchange swaps, to cover

report, analysed by the chair-

Life per OM:

1,000

part of the risk. The level of coverage is cyclical, as the business is in part based on the presentation of each season's fashion collections. "Gradually, as forecasts become more certain, we

increase the coverage," says Mr Marzotto. The report also allows the group's executives to examine what would happen if all Marzotto's foreign currency debta. orders and commitments were realised, thus giving a weekly snapshot of the group's exposure to currencies. Foreign subsidiaries, including Hugo Boss, now use a similar sys-

The system has allowed a clearer picture of underlying trading at Marzotto to emerge from the currency turbulence. In fact, in the past three years weak demand in core markets has had a greater impact on Marzotto's results than exchange rate movements. Marzotto's 1995 report explains that the lira's weakness last year "did not, in fact, benefit the operating margins and the profitability inthat ... higher costs were incurred for goods and services and negative exchange differences on the settlement of financing in foreign currency." aimed at reducing exchange

rate fluctuation. Now the lira is strengthening. Marzotto also faces a

squeeze on its export margins, with long-term clients reluctant to pay higher prices. No amount of sophisticated currency hedging, it seems, canhelp soften the tough commercial reality of working in world

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■ Europe: by Lionel Barber

Traders are warming to Emu

The financial markets have sensed the political will behind monetary union

Something strange happened in the foreign exchange mar-kets this spring. Traders, long sceptical about economic and

monetary union, turned into

The shift in sentiment created a measure of stability in the exchange rate mechanism and a narrowing of long-term bond yields between Germany and potential Emn participants, notably France. All this occurred despite a slowdown in the European economy, persistent high unemployment. and the surprise news that Germany's budget deficit for 1995 exceeded the Maastricht treaty target of 3 per cent of GDP. What is going on?

The first explanation is that the financial markets have finally sensed the formidable political will behind the Emu project. This is true of Chancellor Helmut Kohl who sees monetary union as the cornerstone of a more politically integrated Europe; and it is even truer of elite political The turning point came last

November when President Chirac abandoned equivocation and sanctioned a severe squeeze on public spending. Prime Minister Alain Juppé initially mishandled the package of spending cuts which stirred up violent street protests; but by the New Year, calm returned and the bulk of the cuts, including reforms in social security, remain intact. Now Germany has embarked belatedly on a similar austerity drive with proposed cuts of

The second explanation is that markets have woken up to the fact that the technical obstacles to Emu. though daunting, are manageable. The European Commission and the European Monetary Institute are confident that all work will be wrapped up by the end man-led proposals for a stability pact to enforce budgetary discipline among Emu participants, and the politically contentions relationship between those willing and able to join Emu and those unable or unwilling - the so-called "ins"

and "onts". Last April, at a meeting in Verona, Italy, EU finance ministers agreed in principle on the creation of a new model ERM which would preserve the current 15 per cent fluctuation bands for currencies with the euro replacing the D-Mark as anchor currency. The future European Central Bank would offer limited rencies in difficulty, but the onus would be on member states to put their own house in order. More important, the ECB would have the power to propose a currency realignment, remedying one of the defects in the present system where countries can delay

adjustment for political rea Finally, the markets have grasped that Emu will ultimately he a political decision, to be taken by EU heads of government in the spring of 1998 (under the British presidency). This should allow a measure of flexibility in the interpretation of the Maastricht criteria, particularly on

be 60 per cent or approaching the target at a satisfactory rate. Last month, EU finance ministers decreed that both Denmark and Ireland met the Maastricht targets because

their debt ratio was declining

at an appropriate pace, despite Emn is guaranteed to go ahead on January 1, 1999. The big-

None of this suggests that gest uncertainty is the performance of the European economy. Only three countries.

Denmark, Ireland, and Luxen bourg, meet the Maastricht criteria. Without a return to growth, France and Germany will struggle to get near the budget deficit target of 3 per

The Financial Times plans to publish a Survey on

IMF/World Bank: World Economy & Finance

on Friday, September 27.

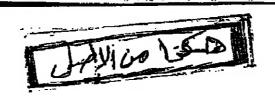
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Customers are now. seeking to hedge their risks rather than improve returns

You will not travel far in the foreign exchange business without tripping over the phrase "risk management". As markets mature and margins disappear from the business of spot foreign exchange, banks are seeking increasingly to find a new role for themselves under the guise of offering a risk management service.
On the face of it, this is no

more than an appeal to common sense. But the devil; as ever, is in the details. Derivatives are key risk management tools, but in the wrong hands they can aggravate rather than reduce risks and the industry remains saddled with the legacy of many large losses which, rightly or wrongly, are attributed to the use of deriva-

A debate continues to rage about their usefulness and the temperature rose recently with the appearance of a provocative article "Why derivatives don't reduce FX risk" in the McKinsey Quarterly. Authors Tom Copeland and Yash Joshi wrote: "The sad truth about foreign exchange risk management programmes is that most would not pass the doctor's basic test: First, do no harm...it is clear that many

programmes destroy value instead of protecting it." They continue: "Of all the variables that influence .a . tion that FX risk is not worth firm's financial performance, FX is but a minor contributor to total risk, except in the event of catastrophic currency failures . . . " And even if the FX risk was a serious one, a study the authors performed of ling Foreign Exchange Risk by

PROFILE

Ty, I been nothing over the past year to match the merger of

Chase and Chemical, two of

the largest foreign exchange

capacity clearly gives them

Citibank, long time market

dispute, and it is an ambition

which Chase itself eschews, but there is no argument

about the potential. The key issue is whether the whole

can be made more than the

some claim to top dog status

banks whose combined

It is a claim which

leader, would fiercely

in the industry.

sum of the parts.

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200 large companies suggested hedging may not be much help in addressing the problem. They found that in only 20 cases would income volatility be reduced by more than 10 per-

This is not a very helpful essage for those manning the options desks of large banks which market these instruments as useful bedging tools. Unsurprisingly, the McKinsey analysis is vigorously contested. Zar Amrolia, global head of FX options marketing at Deutsche Morean Grenfell says the critique is misconat risk in isolation without considering returns.

He argues that a successful hedging programme can increase the value of a company by "adding to the growth in cash flows and reducing the cost of funding".

He also contests the asser-

hedging, citing the 1994 case where Matsushita lost \$1.7bn in translation exposure due to currency fluctuations when it sold MCA.

Figures in the book Manag-

Donald Layton

Man in hot

seat at Chase

David DeRosa also show that during the 1986-95 period, hedged returns on global equity and bond indices were roughly double or half of those of corresponding unhedged returns, depending on which

side of the currency the inves-Mr DeRosa believes that the onward march of derivatives is ineluctable, with the bad experiences largely behind it. Interest is so great that it is only a matter of time before the market learns how to use these products. I see this tremendous effort in the way of education and new systems for

risk monitoring. This paves the

way for increased use of deriv-

There is also evidence that the knowledge gap between dealers and users has closed to the point where there is greater mutuality of purpose than sometimes existed in the

Les Halpin, managing director at Record Treasury, a currency risk management group, says customers are favouring simpler products that are easier to understand.

"We are being asked more to look at strategies which reduce risk. In the past people asked: how can we add to return, but the only way you can add to return is by adding to risk,"

The focus, therefore has shifted to protecting the downside rather than trying to improve the upside.

It is not clear, however, that banks are looking at the subject in entirely the same way. As the options business has matured, traders have resorted increasingly to using exotic options, rather than vanilla options. The most common type of

exotic option, the fastest growing part of the business, are those with a binary, or fixed pay-out, structure. These are entially bets - either they are right or wrong, at very price specific points. A regular currency option, by contrast, has a much more incremental effect, with the pay-out based option is in or out of the

For all the appeal, exotics are a complicated area, and some banks have paid heavily for their inability to develop suitable modelling systems to value these options.

One US-based trader comments: "Someone new falls on their sword every day. There is a lot of blood out there." Clearly it is not only customers who are at risk from dabbling in areas they do not under-

Banks have taken a number of steps to

■ Netting: by George Graham

reduce payment risks in the foreign exchange market When Bankhaus Herstatt, a

small Cologne bank, collapsed in 1974, it cost its foreign exchange trading partners more than \$620m in uncompleted deals and created a whole new category of risk for central bankers to worry

Two decades later, what has become known as Herstatt risk appears at last to be on the verge of being dealt with, or at ast sharply reduced. Banks have taken a number

of initiatives aimed at reducing payment risk in the foreign exchange market, either through netting agreements, which allow banks to offset the amounts they owe each other, or through some form of cen-tralised clearing house.

Bilateral netting services are operated by a number of groups such as FXNET, a part-nership of 12 leading banks, Swift, the global payment message network, and Valunet, run by the International Clear-

These systems allow any two banks to offset the gross sums they owe each other, and settle eliminate a whole tranche of up only the net difference.

Many banks still do not use these services, however, and many that do still use only "close-out netting", which is only triggered by some defined event such as the appointment of a liquidator. Routinely, they still tend to pay each other in

Since last August, the concept of netting has extended on to a multilateral basis with the creation of the Exchange Clearing House, or Echo. Participants make payments not to each other but to the clearing house, significantly reducing have to make and thus, it is

coped, their exposure A competitor called Multinet sponsored by a number of US and Canadian banks, is still awaiting regulatory approval.

But the initiative which has

excited most interest is the work of 17 of the world's largest foreign exchange banks, which have oddly dubbed themselves the Group of 20, on clearing house bank providing an instantaneous foreign exchange settlement system linked to national payment systems such as the UK's Chaps or the US's Fedwire. If the G-20 project comes to

fruition, it would virtually

risk from the world financial than I per cent of them. system.

Because payment for both sides of a foreign exchange deal would be made simultaneously, banks would no longer be left in the position, as they were by Herstatt, of having paid up their side of the bargain but not having

received anything in return. From the central banks' point of view, it is not a moment too soon for the commercial banks to be addressing the issue of payment risk.

Twenty-two years have sed without another shock to the foreign exchange mar-kets on the scale of Herstatt, and some commercial banks have grown unwilling to invest serious money in addressing a risk which appears remote. To the central banks, the

risks appear anything but remote. They have been constantly reminded by such crises as the failure in 1990 of Drexel Burnham Lambert, the US investment bank, and the Bank of Credit and Commerce International (BCCI) in 1991, or the attempted coup d'etat in Moscow in 1991.

Last year, the collapse of Baring Brothers, the UK bank, threatened to block the settlement of Ecu50bn (£39bn) of

The problem is that while the risk of another Herstatt is small, the sums traded in the foreign exchange markets are now so large that even that tiny risk is unaccentable.

The risk is not zero. It may be point zero, zero, zero, but there is a significant digit." said John Reed, chairman of Citibank, one of the world's largest foreign exchange deal-

What remains to be settled is which of the various initiatives will win the day. Some banks argue that netting and realtime settlement systems such as the G-20 project are comple mentary, but the reality has been that a number of potential participants have held back from the multilateral netting schemes while they see if the G-20 can get off the ground. "At the end of the day, it will

be the G-20, because that is where all the big boys are," said one London foreign exchange chief. Some of the netting houses would disagree, but the G-20 is steaming ahead. Some legal

believe it could be up and running inside two years. Central bankers around the world will sleep easier if it is.

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issues remain to be ironed out,

but participants in the project

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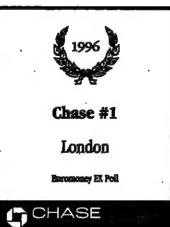
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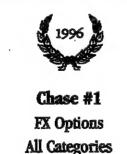
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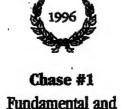
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The man saddled with the task of pulling it off is Donald Layton,

vice-chairman in charge of global markets at the new Chase, the name of the merged bank. He is ---confident: There is no reason why you can't put them together and get better than the parts added up. We did this once before with Chemical and Manufacturers Hanover. I don't think it is going to be that hard. It is the same business on both

From a forez perspective, the merger made rense in that there was perhaps not momathen a 50 per cent overlap in their businesses. Chemical's business was dominated by market-making, with financial institutions, investment funds and "corporates who acted like professionals" as its main customers. Chase, by contrast, had a much stronger sales emphasis, was more oriented towards corporate customers, and had

'value-added" rather than vanille solutions. Given this balance between the two component parts of the new bank, and the clear shift in the business away from market-making towards Customer business, it is slightly fronic that Chemical tac gained the upper hand.

In terms of the architecture causing many senior staff "The wrong bank won," is the judgment of one competitor. Mr Layton will

He is confident that the bank will not lose clients as a result of staff who have left. "Relationships are institutionalised as well as personalised. It is not just a question of the guy on the

The merger is a two-stage business the first part. actually putting the two ions together, has been in effect since April 8, when Chase began presenting a single face to the market.

While the physical and technological sides of the merger have been achieved, the psychological aspect will obviously take longer," says Mr Layton

The second step of the process involves getting the cost savings out of the merger, the aim being to keep "virtually 100 per cent" of the revenues at the same time. The effect of the merger has been to cut both costs and staffing by about 20 per cent, but revenues are more difficult to judge because they depend on market conditions. Mr Layton believes, though, that they are easily being

maintained. Now the challenge is to build the business - in particular, to combine Chemical's market-making ability with local branch network and global reach of Chase; to take less mature currencies - Mr Layton cites the Greek drachma as an example - on to the world

"Cross-over trades" is what the bank needs to achieve success - the merged bank has more products and customers than either of its constituents. The two must be brought together.

Mr Layton believes Chase should be able to grow, by taking market share, and through more successful proprietary trading. He also thinks Chase

should have a larger share of

the client market. "We do

not have our natural market

share for the bank we have Remedying this will involve doing a better job of pursuing corporate busines but the stress will be on the institutional side, with rising global investment flows the main stimulus to market

Philip Gawith

Dollar does an about turn Funny money comes of

The biggest question facing the markets is whether the currency's rally will prove enduring

If a week is a long time in politics, then a year is an aeon on the foreign exchange markets. A little over 12 months ago, the dollar had sunk to historic lows against the D-Mark and the yen, prompting concerned discussion about its future as the world's main

A year later, that concern seems somewhat overblown. The dollar has rallied by about 27 per cent and 12 per cent respectively from its lows against the yen and the D-Mark to reach its current levels around Y109 and DM1.53. Its status as the dominant

trading currency is unimpaired - official figures show it figures on one side of 83 per cent of spot foreign exchange transactions - and its pre-eminence as the leading reserve currency is not threatened.

Now the biggest question facing the markets is whether the dollar's rally will prove enduring. The fundamentals appear favourable, but the against the D-Mark, has led

the momentum to keep going.

What, however, caused it to turn in the first place? Stripped to basics, there were three main elements: improved international economic co-operation; the relaxation of monetary policy in Germany and Japan: and the improved performance of the US economy. coupled with a more credible policy backdrop including towards the dollar.

The issue was also redefined. It became increasingly clear that the focus of the problem lay more in the overvalued currencies and stagnant economies of Japan and Germany than in the weak dollar.

In the US, there were two crucial developments. The first was the emergence of a bipartisan consensus behind the desirability of a balanced budget. This helped convince mar-kets that the US was serious about putting its economic house in order.

The second was the appointment of Robert Rubin as US treasury secretary. As the forner senior partner of Goldman Sachs, the prestige Wall Street investment bank, he started with the advantage of having the market's respect and his considerably to the credibility of the Administration's ecoHelped by the US's good economic performance, especially compared with Germany and Japan, he was able to achieve the considerable feat of overturning traders' deep-seated scepticism about the dollar.

An important element in achieving this was a series of successful bouts of central bank intervention between April and August 1995 to sup-port the dollar. These were instrumental in shifting market sentiment in favour of a stronger dollar, just as earlier failed bouts of support had convinced markets that the dollar had to go lower.

Mr Rubin, however, did not work his magic alone. The perllous state of the Japanese banking system convinced Japanese authorities that fiscal and monetary stimuli were necessary to haul the economy out of a deflationary spiral. On the monetary side, this required a weaker currency

and lower interest rates. Germany also shifted tack -the Bundesbank stopped making snide coments about US economic policy, continued to loosen monetary policy through the exchange rate and interest rates, and started calling for a stronger dollar.

As with Japan, this change can be traced to underlying

Exotic currencies: by Philip Gawith

Demand for obscure currencies is growing

as investment in developing countries

omy. In Germany's case, the

through keeping exports com-

petitive was given added urgency by the imperative of

meeting the convergence crite-

The dollar's turn, therefore,

was in part a function of eco-

nomics - Japan and Germany

needing weaker currencies

and the US economy clearly outperforming. But policy also played a role - the fact that

the largest three economies were all believed to want a

stronger dollar gave traders

and investors confidence to

cast, published by Consensus

Economics, shows the market

believes the dollar will be trad-

ing at DM1.539 and Y106.2 in a

year's time, barely changed

from current levels, although

some influential forecasters

are predicting levels of Y116-30

As ever there are risks:

renewed turbulence in the ERM, causing a flight to the

D-Mark, or an economic upset

in one of the three main econo-

But even if most of the dol-

lar's rally is behind it, espe-

cially against the yen, it is still

easier to see it rising, rather

mies, would probably suffice.

and DM1.60/70 before then.

What of the future? A fore-

buy dollars again.

rla of the Maastricht treaty.

need to boost aconomic growth

When Derek Saville started to develop Standard Chartered's emerging market currency business back in the early 1980s, it was known as the fanny money" desk.

Today it would be more appropriate to talk of big money. With mature currencies less volatile than in the past, banks are looking for new opportunities in foreign exchange. And rising trade and investment flows to developing countries have boosted demand for previously obscure

"Over the next few years 50 per cent of all the growth is going to take place in these markets." says Mr Saville. head of treasury global products at Standard Chartered in

Asia and Latin America have long been the emerging markets most active for currency trading, but there has been increased activity in east European currencies such as the Polish zloty and the Czech

these exotic currencies remains small - figures are notoriously vague, but global daily turnover could well be below 5 per cent of that in the mature currencies. It is the rend, however, that is impor-

Banks confirm that there is rising customer demand to trade these currencies and the signs are there for all to see the increasing number of banks hustling for a piece of the business, the burgeoning volume of research produced, and the hot labour market for

emerging markets talent.
Although exotics may still be on the margin, they are moving increasingly to the centre. There are days now when a currency such as the rand or Mexican peso can dominate dealing room activity, sometimes to the point that the explanation for movements in the "majors" can be traced back to developments in one of the exotics.

These currencies are also performing well when measured by the key benchmark of profits. Although volumes may be low, these are often handsomely compensated for by generous margins.

Steve Jennions, emerging markets stategist at Banque Indosuez in London, says: "If you are the only bank that can provide a currency payment into Algeria, your reward is obviously going to be quite

While Citibank, with branches in 97 countries, is to some extent in a category of its own in foreign exchange, it will still come as news to many to learn that roughly half of its foreign exchange profits are now carned in emerging markets - approximately double the level five

At Standard Chartered. more than half of the foreign exchange profits in the Lon-don dealing room come from emerging markets.

Guy Whittaker, head of global foreign exchange at Citibank, says that in the 1992-95 period, the balance tween old and new markets "shifted quite significantly" with a commensurate shift in resource allocation for the bank, both in regional centres and local currencies.

As in all markets, there is a trade-off to be had between liquidity and margins. While banks enjoy the fat margins associated with illiquidity, they also banker after the comfort of knowing that they can sell when they need to. Mr Jennions says: "We need more banks in on a fully-fledged basis to provide liquidity to the market as opposed to just their clients.

Whether the business will be as fizzy as some optimists expect is a most point. Mr

SBC Warburg, commente "Emerging markets will be good, but nowhere near any, body's expectations. More re-

enue will come, but it is not going to be an easy stream." The 20 per cent fall in the South African rand earlier this year, after a long period of six bility, was simply the most

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recent example that some of these markets remain volatile. Whether new entrants have the stomach or the nous for the long haul also remains to be seen. Mr Saville is sception about their "pain barrier." They may have deep pockets, but once they realise the risks, the problems ... The time-goes further: The culture is not there yet. It is very image. tant for the culture among the

whole bank to be there." For now, distinct difference remain between exotic and mature currencies. Aside from factors such as liquidity and margins, exotics tend still to be influenced by domestic political and economic events. while mature currencies respond more to shifts in monetary policy in the main economies, not simply their own, There is also less speculation often because it is prohibited.

Mr Saville's advice is simple "Try and get as close to the central banks and policy-makers as you can, and listen very carefully to the advice you are given, because they mean what they say. They don't deal

■ Currency strategists: by Graham Bowley

Crystal balls are often wrong

Clear thinking, acute writing and strong conclusions are qualities valued by investment managers

With big salaries, fast cars and, for those at the top of the profession, a guru-like status whose scribblings attract fame across the City of London, Wall Street and beyond, the star of the foreign exchange strategist has risen far in recent years.

But strategists are for from infallible. Indeed, most are often wrong, especially un the nost heavily traded currencies which are the ones that matter

"We have never met anybody who has consistently predicted the major trends in currencles," says Tony Baverstock, treasurer at Clerical Medical, the life assurance group.

investment managers, whose desks daily groan under the weight, of the industry's outpourings, may therefore ask why they should take note?

The answer is that their work is valued not for the accuracy of their forecasts but for the wide variety of ideas they are able to generate and which investors can use as a sounding board for their own

"We do find them useful just because they are looking at things from a greater research base. We can't replicate that research base," says Tim Swadling, portfolio manager of currencies and international fixed income at AMP Asset

Paul Abberley, head of fixed income at Lombard Odier Investment Management Services, says: "The key thing we want to know is what is driving currencies at any one time. There are things which we can do ourselves - for example forecast - but large houses can see the current flows which we

Banks and securities houses have set up strategy departments in the hope of winning business with investors, calculating that a good currency research service will help cement a longer term relation-ship with potential clients. With little profit left in purely transactional currency trading, foreign exchange departments have become increasingly client focused and research is viewed as a critical marketing

"People are finally realising that in order to have good cli-ent relations with big institutions, serious research is highly valued," commented one analyst.

The result has been strategy and research departments which at times have seemed an awkward fit within banks and securities houses - not least since unlike other areas of the organisations their actual value-added is hard to quantify. Departments have come into existence whose sole raison d'etre has at times seemed simply to be a public relations office - wining and dining potential clients and acting as pundit on television and in the

to work. Investment managers are appreciative of strategists work and will often award business according to the standard of research. At the same time they recognise that the output varies greatly in qual-

"We have a system where we rank houses by a number of attributes, where research is the highest. This system deter mines how we distribute our business," says Mr Swadings

What are the qualities that are valued in strategists' work? Clear thinking, acute writing and strong conclusions, it seems, come top of many

AND MARK COMMANDES

"A good analyst is some who is able to take the their and apply it to the market in a convincing way. There are very few economists who are able to do that and far too few are willing to put their reput tions on the line," says an

Mcader. But as well as good analyti cal abilities, how seriously a strategist's views are taken will often depend crucially on who he or she works for # customers think the strategist are seeing big currency flows they will want to know the

"The bigger the house th better the global vision," says

I'M NOT TALKING SHORT TERM, LONG TERM OR . MEDIUM TERM — I JUST WANT TO KNOW IF THE LIFT IS COING 'UP' OR 'DOWN



Mr Abberley. Mike Rosenberg, head of fixed income and currency research at Merrill Lynch in New York and author of an authoritative book on currency forecasting, is critical of what he calls "I-can't-be-wrong forecasts" - forecasts that make no strong predictions.

He thinks currency strategy is inseparable from economic analysis. "A good framework must be based on economics so you can't separate currency strategy from economics," he

But finally, however clear or comprehensive the analysis presented by strategists, investors realise that in the end it is their money which is at stake.

They therefore treat most strategists' work, in spite of the big salaries, fast cars and. in some special cases, the guru-like reputations, with a certain healthy scepticism.

There is nobody we pull out from the pile and say that is a person who gets it right in the says Mr long term." Baverstock, "You finally have to take a punt yourself and decide where to invest your

